

Animal and Plant Health Inspection Service, USDA**§ 305.2**

Methyl bromide. A colorless, odorless biocide used to fumigate a wide range of commodities.

Phosphine. Flammable gas generated from either aluminum phosphide or magnesium phosphide and used to treat stored product commodities.

Quick freeze. A commercially acceptable method of quick freezing at sub-zero temperatures with subsequent storage and transportation at not higher than 20 °F. Methods that accomplish this are known as quick freezing, sharp freezing, cold pack, or frozen pack, but may be any equivalent commercially acceptable freezing method.

Section 18 of Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA). An emergency exemption granted by the U.S. Environmental Protection Agency to Federal or State agencies authorizing an unregistered use of a pesticide for a limited time.

Sulfuryl fluoride. An odorless, colorless, and nonflammable compressed fumigant that is used primarily to kill pests of wood.

Steam heat. The introduction of steam at 212 °F or higher into an enclosure containing a commodity to kill targeted organisms.

Vacuum fumigation. Fumigation performed in a gas-tight enclosure. Most air in the enclosure is removed and replaced with a small amount of fumigant. The reduction in pressure reduces the required duration of the treatment.

Vacuum heat treatment. The treated commodity is held in a gas-tight enclosure and heated to a specified temperature for a specific time period to kill targeted pests.

Vapor heat. Heated air saturated with water vapor and used to raise the temperature of a commodity to a required point for a specific period.

[70 FR 33269, June 7, 2005, as amended at 70 FR 36332, June 23, 2005]

§ 305.2 Approved treatments.

(a) Certain commodities or articles require treatment, or are subject to treatment, prior to the interstate movement within the United States or importation or entry into the United States. Treatment is required as indicated in parts 301, 318, and 319 of this chapter, on a permit, or by an inspector.

(1) Treatment schedules provided in this part must be followed to neutralize pests.

(2) More information about treatment schedules is contained in the Plant Protection and Quarantine (PPQ) Treatment Manual, which is available on the Internet at http://www.aphis.usda.gov/ppq/manuals/online_manuals.html or by contacting the Animal and Plant Health Inspection Service, Plant Protection and Quarantine, Manuals Unit, 69 Thomas Johnson Drive, Suite 100, Frederick, MD 21702.

(3) Treatment requirements provided in this part must be followed to adequately administer treatment schedules.

(4) APHIS is not responsible for losses or damages incurred during treatment and recommends that a sample be treated first before deciding whether to treat the entire shipment.

(b) *Alpha grass and handicrafts (Stipa tenacissima, Ampelodesmos mauritanicus).* For treatment schedules, see § 305.6 for methyl bromide (MB) fumigation.

| Pest | Treatment |
|----------------------------|-------------------------|
| <i>Harmolita</i> spp. | MB T304-a or MB T304-b. |

(c) *Bags, bagging materials, and covers (used).* The treatment schedules for which administration instructions are not provided are in § 305.6 for methyl bromide (MB) fumigation, § 305.23 for steam sterilization (SS), and § 305.25 for dry heat (DH).

| Used material | Pest | Treatment |
|---|--|---|
| Bags and bagging material or covers used to contain root crops. | <i>Globodera rostochiensis</i> | MB T306-a. |
| Bags and bagging used for commodities grown in soil. | Potato cyst nematode | MB T502-1. |
| Bags and bagging material or covers used for cotton only. | <i>Pectinophora</i> spp. | MB T306-b. |
| Bags and bagging used for small grains | Downy mildews and <i>Physoderma</i> diseases of maize. | T503-1-2: Soak in water slightly below boiling (212 °F) for 1 hour; or SS T503-1-3; or DH T503-1-4. |

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| Used material | Pest | Treatment |
|--|---|---|
| Bags and bagging material or covers | Flag smut | DH T504-1-1 or SS T504-1-2. |
| Bagging from unroasted coffee beans | <i>Trogoderma granarium</i> | MB T306-c-1 or MB T306-c-2. |
| Covers used for commodities grown in soil. | Various | MB T306-d-1 or MB T306-d-2. |
| Covers used for small grains | Potato cyst nematode | MB T502-2. |
| Covers used for wheat | Downy mildews and <i>Physodera</i> diseases of maize. | T503-2-2: Soak in water slightly below boiling (212 °F) for 1 hour; or SS T503-2-3; or DH T503-2-4. |
| | Flag smut | DH T504-2-1 or SS T504-2-2. |

(d) *Broomcorn and broomcorn articles.* The treatment schedules for which administration instructions are not provided are in § 305.6 for methyl bromide (MB) fumigation and § 305.23 for steam sterilization (SS).

| Pest | Treatment |
|--|---|
| Corn-related diseases (precautionary treatment). | T566-1 (broomcorn) and T566-2 (broomcorn articles): Completely submerge in hot water at 102 °F. |

| Material | Pest | Treatment |
|--|--------------------------------------|---|
| Baled lint or linters | <i>Pectinophora</i> spp | MB T301-a-3. |
| Baled lint, linters, waste, piece goods, gin trash. | <i>Trogoderma granarium</i> | MB T301-b-1-1 or MB T301-b-1-2. |
| Cottonseed (samples and bulk) | <i>Pectinophora</i> spp | T301-a-7: (1) Delint the cottonseed by applying sufficient heat (145 °F) or acid or both; or (2) raise the temperature of the delinted seed during the subsequent drying process to 145 °F for no less than 45 seconds or at least 140 °F for no less than 8 minutes. |
| | <i>T. granarium</i> | MB T301-b-2. |
| Cottonseed, cottonseed products, or samples. | | |
| Cottonseed meal | <i>T. granarium</i> | MB T301-b-3. |
| Cotton and cotton products | <i>Globodera rostochiensis</i> | MB T301-c. |
| Cotton and cotton products | <i>Anthophonus grandis</i> | MB T301-d-1-1 or PH T301-d-1-2. |
| Lint, linters, cottonseed, cottonseed hulls, gin trash, waste, cottonseed meal, or other baled or bulk commodities (except samples). | <i>Pectinophora</i> spp | MB T301-a-1-1 or MB T301-a-1-2. |
| Lint, linters, and cottonseed (bulk, sacked, or packaged cottonseed, lint or linters, cottonseed hulls, gin trash, and all other baled or bulk cotton commodities). | <i>Pectinophora</i> spp | PH T301-a-6. |
| Lint (except baled lint or linters), cottonseed (except packaged cottonseed), cottonseed hulls, gin trash, waste, cottonseed meal, or other baled or bulk commodities (excluding samples). | <i>Pectinophora</i> spp | MB T301-a-2. |
| Packaged cottonseed | <i>Pectinophora</i> spp | MB T301-a-4. |
| Samples of cotton and cotton products | <i>Pectinophora</i> spp | MB T301-a-5-1 or MB T301-a-5-2. |

(f) *Cut flowers and greenery.* The treatment schedules for which administration instructions are not provided are in § 305.6 for methyl bromide (MB) fumigation.

| Pest | Treatment |
|--|------------|
| External feeders, leafminers, hitchhikers (except for snails and slugs), surface pests ... | MB T305-a. |
| Borers or soft scales | MB T305-b. |
| Mealybugs | MB T305-c. |

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(g) *Equipment.* The treatment schedules for which administration instructions are not provided are in § 305.6 for

methyl bromide (MB) fumigation, § 305.9 for aerosol, and § 305.23 for steam sterilization (SS).

| Article | Pest | Treatment |
|---|--|--|
| Aircraft | <i>Trogoderma granarium</i> | T409-a: Contact PPQ Regional Director for specific instructions. Aerosol T409-b. |
| | Hitchhiker pests (other than <i>T. granarium</i> , fruit flies, and soft-bodied insects). Fruit flies and soft-bodied insects | |
| Automobiles | <i>Globodera rostochiensis</i> | Aerosol T409-c-1 or Aerosol T409-c-3. T406-c, steam cleaning: Steam at high pressure until all soil is removed. Treated surfaces must be thoroughly wet and heated. |
| | | MB T406-b. SS T406-d. |
| Construction equipment with cabs | <i>G. rostochiensis</i> | MB T406-b. |
| Construction equipment without cabs | <i>G. rostochiensis</i> | MB T406-d. |
| Containers | <i>G. rostochiensis</i> | MB T406-b. |
| Containers | Potato cyst nematode | MB T506-1. |
| Field and processing equipment (<i>Saccharum</i>). | <i>Xanthomonas albilineans</i> and <i>X. vascularorum</i> . | T514-4: Remove all debris and soil from equipment with water at high pressure (300 pounds per square inch minimum) or with steam. |
| Mechanical cotton pickers and other cotton equipment. | <i>Pectinophora gossypiella</i> | MB T407. |
| Used farm equipment with cabs | <i>G. rostochiensis</i> | T406-c, steam cleaning: Steam at high pressure until all soil is removed. Treated surfaces must be thoroughly wet and heated. |
| | <i>G. rostochiensis</i> | MB T406-b. |
| | <i>G. rostochiensis</i> | SS T406-d. |
| Used farm equipment with cabs | <i>G. rostochiensis</i> | SS T406-d. |
| Used farm equipment without cabs | | |
| Used containers | | |

(h) *Fruits and vegetables.* (1) Treatment of fruits and vegetables from foreign localities by irradiation in accordance with § 305.31 may be substituted for other approved treatments for any of the pests listed in § 305.31(a). Treatment of fruits and vegetables from Hawaii, Puerto Rico, and the U.S. Virgin Islands by irradiation at the minimum doses listed in § 305.31(a) and in accordance with § 305.34 may be substituted for other approved treatments for any of the pests listed in § 305.31(a).

(2) The treatment schedules for which administration instructions are not provided are in § 305.6 for methyl

bromide (MB) fumigation, § 305.10(a) for methyl bromide fumigation and cold treatment (MB&CT), § 305.10(b) for cold treatment and methyl bromide fumigation (CT&MB), § 305.11 for miscellaneous chemical treatments (CMisc.), § 305.16 for cold treatment (CT), § 305.18 for quick freeze, § 305.21 for hot water dip (HWD), § 305.22 for hot water immersion (HWI), § 305.24 for vapor heat (VH), § 305.27 for forced hot air (FHA), § 305.29 for vacuum heat (VCH), §§ 305.31 through 305.34 for irradiation (IR), and § 305.42 for miscellaneous (Misc.).

(i) *Treatment for shipments from foreign localities.*

| Location | Commodity | Pest | Treatment schedule |
|-----------|--|---|------------------------------|
| All | All imported fruits and vegetables. | Hitchhiker pests or surface pests, except mealybugs. Mealybugs | MB T104-a-1. MB T104-a-2. |
| | | Most | Quick freeze T110. |
| | Acorns, chestnuts (see § 319.56-2b of this chapter). | <i>Cydia splendana</i> and <i>Curculio</i> spp.. | MB T101-t-1 or MB T101-u-1. |
| | Banana | External feeders such as <i>Noctuidae</i> spp., <i>Thrips</i> spp., <i>Copitarsia</i> spp.. | MB T101-d-1. |
| | Beet | Internal feeders | MB T101-g-1. |
| | Beet | External feeders | MB T101-g-1-1. |

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| Location | Commodity | Pest | Treatment schedule |
|----------|---|---|--|
| | Blackberry | External feeders such as <i>Noctuidae</i> spp., <i>Thrips</i> spp., <i>Copitarsia</i> spp., <i>Pentatomidae</i> spp., and <i>Tarsonemus</i> spp.. | MB T101-h-1. |
| | Broccoli (includes Chinese and rapini). Brussel sprouts | External feeders and leafminers. | MB T101-n-2. |
| | Cabbage (European and Chinese). Cabbage (bok choy, napa, Chinese mustard). Cantaloupe | External feeders and leafminers. | MB T101-n-2. |
| | Carrot | External feeders | MB T101-k-1. |
| | Carrot | External feeders | MB T101-l-1. |
| | Carrot | Internal feeders | MB T101-m-1. |
| | Cauliflower | External feeders and leafminers. | MB T101-n-2. |
| | Celeriac (celery root) | External feeders | MB T101-n-1. |
| | Celery (above ground parts) | External feeders | MB T101-o-1. |
| | Chayote (fruit only) | External feeders | MB T101-p-1. |
| | Cherry | Insects other than fruit flies ... | MB T101-r-1. |
| | Cherry | <i>Rhagoletis indifferens</i> and <i>Cydia pomonella</i> . | MB T101-s-1. |
| | Chicory (above ground parts) | External feeders | MB T101-v-1. |
| | Chicory root | External feeders | MB T101-n-1. |
| | Copra | External feeders | MB T101-x-1. |
| | Corn-on-the-cob | <i>Ostrinia nubilalis</i> | MB T101-x-1-1. |
| | Cucumber | External feeders | MB T101-y-1. |
| | Dasheen | External feeders | MB T101-z-1. |
| | Dasheen | Internal feeders | MB T101-a-2. |
| | Durian and other large fruits such as breadfruit. | External feeders | Misc. T102-c. |
| | Endive | External feeders | MB T101-b-2. |
| | Fava bean (dried) | Bruchidae | MB T101-c-2. |
| | Garlic | <i>Brachycerus</i> spp. and <i>Dyspessa ulula</i> . | MB T101-d-2. |
| | Ginger (rhizome) | Internal feeders | MB T101-f-2. |
| | Ginger (rhizome) | External feeders | MB T101-g-2. |
| | Grapefruit and other citrus | <i>Aleurocanthus woglumi</i> | MB T101-j-2. |
| | Herbs and spices (dried) | Various stored product pests, except khapra beetle. | MB T101-n-2-1-1. |
| | Herbs, fresh (includes all fresh plant parts except seeds). | External feeders and leafminers.. | |
| | Kiwi | External feeders, <i>Nysius huttoni</i> . | MB T101-m-2. |
| | Leeks | Internal feeders | MB T101-q-2. |
| | Lentils (dried) | Bruchidae | MB T101-e-1. |
| | Litchi | Mealybugs (Pseudococcidae) | MB T101-b-1-1. |
| | Lime | Mealybugs and other surface pests. | HWI T102-e. |
| | Melon (including honeydew, muskmelon, and water-melon). | External feeders such as <i>Noctuidae</i> spp., <i>Thrips</i> spp., <i>Copitarsia</i> spp.. | MB T101-o-2. |
| | Onion | Internal feeders and leafminers. | MB T101-q-2. |
| | Papaya | <i>Cercospora mamaonidis</i> and <i>Phomopsis carica-papayae</i> . | T561: Dip in hot water at 120.2 °F for 20 minutes. |
| | Parsnip | Internal feeders | MB T101-g-1. |
| | Peas (dried) | Bruchidae | MB T101-e-1. |
| | Pecans and hickory nuts | <i>Curculio caryae</i> | CT T107-g. |
| | Peppers | Internal pests (except fruit flies) and external pests (except mealybugs). | MB T101-a-3. |
| | Pineapple | Internal feeders | MB T101-r-2 |
| | Plantain | External feeders such as <i>Noctuidae</i> spp., <i>Thrips</i> spp., <i>Copitarsia</i> spp.. | MB T101-t-2. |
| | Potato (white or Irish) | <i>Graphognathus</i> spp. | MB T101-u-2. |
| | Potato (white or Irish) | <i>Ostrinia nubilalis</i> , <i>Phthorimaea operculella</i> . | MB T101-v-2. |
| | Pulses (dried) | Bruchidae | MB T101-e-1. |

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| Location | Commodity | Pest | Treatment schedule |
|---------------------------|--|--|---|
| Albania | Pumpkin (includes calabaza varieties). | External feeders | MB T101-w-2. |
| | Radish | Internal feeders | MB T101-g-1. |
| | Raspberry | External feeders such as Noctuidae spp., <i>Thrips</i> spp., <i>Copitarsia</i> spp.. | MB T101-x-2. |
| | Shallots | Internal feeders including leafminers. | MB T101-q-2. |
| | Squash (winter, summer, and chayote). | External feeders | MB T101-y-2. |
| | Sweet potato | External and internal feeders | MB T101-b-3-1. |
| | Strawberry | External feeders | MB T101-z-2. |
| | Tuna and other cactus fruit | External feeders and leafminers. | MB T101-e-3. |
| | Turnip | Internal feeders | MB T101-g-1. |
| | Yam (see § 319.56-21 of this chapter). | Internal and external feeders | MB T101-f-3. |
| | Zucchini | <i>Ceratitis capitata</i> , <i>Bactrocera cucurbitae</i> , <i>B. dorsalis</i> . | VH T106-b-8. |
| Algeria | Zucchini | External feeders | MB T101-h-3. |
| | Horseradish | <i>Baris lepidii</i> | MB T101-i-2. |
| | Grape | <i>Lobesia botrana</i> | MB T101-h-2. |
| | | <i>Ceratitis capitata</i> | CT T107-a or MB T101-h-2-1. MB T101-h-2-1. |
| | | <i>Ceratitis capitata</i> , <i>Lobesia botrana</i> . | |
| | | <i>Bactrocera cucurbitae</i> , <i>B. dorsalis</i> , <i>B. tryoni</i> , <i>Brevipalpus chilensis</i> , <i>Ceratitis capitata</i> , <i>Lobesia botrana</i> . | MB&CT T108-a-1 or T108-a-2 or T108-a-3. |
| | | <i>Ceratitis capitata</i> | |
| | | <i>Ceratitis capitata</i> | CT T107-a. |
| | | <i>Bactrocera cucurbitae</i> , <i>B. dorsalis</i> , <i>B. tryoni</i> , <i>Brevipalpus chilensis</i> , <i>Ceratitis capitata</i> , <i>Lobesia botrana</i> . | MB&CT T108-a-1 or T108-a-2 or T108-a-3. |
| Antigua and Barbuda | Bean (pod), pigeon pea (pod) | <i>Cydia fabri</i> , <i>Epinotia aporema</i> , <i>Maruca testulalis</i> , and leafminers. | MB T101-k-2. |
| Argentina | Okra (pod) | <i>Pectinophora gossypiella</i> | MB T101-p-2. |
| | Apple, apricot, cherry, kiwi, peach, pear, plum, nectarine, quince, pomegranate. | Species of <i>Anastrepha</i> (other than <i>Anastrepha ludens</i>), <i>Ceratitis capitata</i> . | CT T107-a-1. |
| | Blueberry | <i>Ceratitis capitata</i> | MB T101-i-1-1. |
| | Grape | Species of <i>Anastrepha</i> (other than <i>Anastrepha ludens</i>), <i>Ceratitis capitata</i> . | CT T107-a-1. |
| | | Insects other than <i>Ceratitis capitata</i> and <i>Lobesia botrana</i> . | MB T101-i-2. |
| Armenia | Grape | <i>Lobesia botrana</i> | MB T101-h-2. |
| | | <i>Ceratitis capitata</i> | CT T107-a MB T101-h-2-1. |
| | | <i>Ceratitis capitata</i> , <i>Lobesia botrana</i> . | MB T101-h-2-1. |
| | | <i>Bactrocera cucurbitae</i> , <i>B. dorsalis</i> , <i>B. tryoni</i> , <i>Brevipalpus chilensis</i> , <i>Ceratitis capitata</i> , <i>Lobesia botrana</i> . | MB&CT T108-a-1 or T108-a-2 or T108-a-3. |
| Australia | Horseradish | <i>Baris lepidii</i> | MB T101-1-2. |
| | Apple | <i>Austrotortrix</i> spp. and <i>Epiphyas</i> spp., <i>Bactrocera tryoni</i> , <i>Ceratitis capitata</i> , and other fruit flies. | CT&MB T109-d-1. |
| | | <i>Bactrocera tryoni</i> | |
| | | Tortricidae | CT T107-d. |
| | | External feeders, apple moth | MB T101-a-1. |
| | Asparagus | External feeders such as Noctuidae spp., <i>Thrips</i> spp. (except <i>Scirtothrips dorsalis</i> from Thailand), <i>Copitarsia</i> spp.. | MB T101-a-1. |
| | | <i>Halotydeus destructor</i> | MB T101-b-1-1. |
| | | | T101-b-1-1. |

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|------------------|--|--|---|
| Austria | Citrus—oranges, grapefruits, limes, lemons, mandarins, satsumas, tangors, tangerines, and other fruits grown from this species or its hybrids (<i>C. reticulata</i>). Citrus—oranges, grapefruits, limes lemons, mandarins, satsumas, tangors, tangerines, and other fruits grown from this species or its hybrids (<i>C. reticulata</i>). Grape | <i>Bactrocera tryoni</i> | CT T107-d. |
| | Kiwi | <i>Ceratitis capitata</i> | CT T107-a. |
| | Pear | <i>Austrotortrix</i> spp. and <i>Epiphyas</i> spp., <i>Bactrocera tryoni</i> , <i>Ceratitis capitata</i> , and other fruit flies. <i>Bactrocera tryoni</i> | MB&CT T108-b or CT&MB T109-d-1. |
| | Grape | <i>Austrotortrix</i> spp., <i>Epiphyas</i> spp., <i>Bactrocera tryoni</i> , <i>Ceratitis capitata</i> , and other fruit flies. <i>Bactrocera tryoni</i> | CT T107-d. CT&MB and T109-d-1. |
| | Horseradish | <i>Bactrocera tryoni</i> | CT T107-d. |
| | Bean, garden (pod or shelled) | <i>Tortricidae</i> | MB T101-a-1. |
| | Green bean | <i>Lobesia botrana</i> | MB T101-h-2. |
| | Grape | <i>Ceratitis capitata</i> | CT T107-a or MB T101-h-2-1. MB T101-h-2-1. |
| | Horseradish (to Hawaii) | <i>Ceratitis capitata</i> , <i>Lobesia botrana</i> . | MB T107-a or MB T101-h-2-1. |
| | Bean (pod) | <i>Bactrocera cucurbitae</i> , <i>B. dorsalis</i> , <i>B. tryoni</i> , <i>Brevipalpus chilensis</i> , <i>Ceratitis capitata</i> , <i>Lobesia botrana</i> . <i>Baris lepidii</i> | MB&CT T108-a-1 or T108-a-2 or T108-a-3. |
| Aruba | Horseradish | <i>Cydia fabivora</i> , <i>Epinotia aporema</i> , <i>Maruca testulalis</i> , and leafminers. | MB T101-1-2. |
| | Bean, garden (pod or shelled) | <i>Cydia fabivora</i> , <i>Epinotia aporema</i> , <i>Maruca testulalis</i> , and leafminers. | MB T101-k-2 or MB T101-k-2-1. |
| | Green bean | <i>Lobesia botrana</i> | MB T101-k-2. |
| | Grape | <i>Ceratitis capitata</i> | MB T101-h-2. CT T107-a or MB T101-h-2-1. MB T101-h-2-1. |
| Azerbaijan | Horseradish | <i>Ceratitis capitata</i> , <i>Lobesia botrana</i> . | MB&CT T108-a-1 or T108-a-2 or T108-a-3. |
| | Bean (pod) | <i>Bactrocera cucurbitae</i> , <i>B. dorsalis</i> , <i>B. tryoni</i> , <i>Brevipalpus chilensis</i> , <i>Ceratitis capitata</i> , <i>Lobesia botrana</i> . <i>Baris lepidii</i> | MB T101-1-2. |
| | Okra (pod) | <i>Baris lepidii</i> | MB T101-k-2. |
| | Pigeon pea (pod) | <i>Cydia fabivora</i> , <i>Epinotia aporema</i> , <i>Maruca testulalis</i> , and leafminers. | MB T101-p-2. MB T101-k-2. |
| Barbados | Bean (pod or shelled), pigeon pea (pod). | <i>Pectinophora gossypiella</i> | MB T101-k-2. |
| | Okra (pod) | <i>Cydia fabivora</i> , <i>Epinotia aporema</i> , <i>Maruca testulalis</i> , and leafminers. | MB T101-p-2. MB T101-h-2. |
| | Grape | <i>Cydia fabivora</i> , <i>Epinotia aporema</i> , <i>Maruca testulalis</i> , and leafminers. | MB T101-h-2-1. |
| | Horseradish | <i>Pectinophora gossypiella</i> | MB T101-p-2. MB T101-h-2. CT T107-a or MB T101-h-2-1. |
| Belarus | Okra (pod) | <i>Lobesia botrana</i> | MB T101-h-2-1. |
| | Grape | <i>Ceratitis capitata</i> | MB T101-h-2-1. |
| | Horseradish | <i>Ceratitis capitata</i> , <i>Lobesia botrana</i> . | MB T101-p-2. MB T101-h-2. CT T107-a or MB T101-h-2-1. |
| | Horseradish (to Hawaii) | <i>Bactrocera cucurbitae</i> , <i>B. dorsalis</i> , <i>B. tryoni</i> , <i>Brevipalpus chilensis</i> , <i>Ceratitis capitata</i> , <i>Lobesia botrana</i> . <i>Baris lepidii</i> | MB&CT T108-a-1 or T108-a-2 or T108-a-3. |
| Belgium | Horseradish | <i>Cydia fabivora</i> , <i>Epinotia aporema</i> , <i>Maruca testulalis</i> , and leafminers. | MB T101-1-2. MB T101-k-2. |
| | Bean, garden (pod or shelled), pea (pod or shelled). | <i>Baris lepidii</i> | MB T101-1-2. |
| | Horseradish (to Hawaii) | <i>Baris lepidii</i> | MB T101-1-2. |

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| Location | Commodity | Pest | Treatment schedule |
|--|---|--|---|
| Belize | Bean (pod or shelled), pigeon pea (pod or shelled). | <i>Cydia fabivora</i> , <i>Epinotia aporema</i> , <i>Maruca testulalis</i> , and leafminers. | MB T101-k-2. |
| | Carambola | Species of <i>Anastrepha</i> (other than <i>Anastrepha ludens</i>). <i>Ceratitis capitata</i> | CT T107-c. |
| | Ethrog | <i>Bactrocera cucurbitae</i> , <i>B. dorsalis</i> , <i>B. tryoni</i> , <i>Brevipalpus chilensis</i> , <i>Ceratitis capitata</i> , <i>Lobesia botrana</i> . | CT T107-a. MB&CT T108-a-1 or T108-a-2 or T108-a-3. |
| | Grapefruit, orange, tangerine | <i>Anastrepha ludens</i> | CT T107-b. |
| | Papaya | <i>Ceratitis capitata</i> , <i>Bactrocera cucurbitae</i> , <i>B. dorsalis</i> . | FHA T103-d-2 (see § 319.56-2(j) of this part). |
| Bolivia | Blueberry | <i>Ceratitis capitata</i> | MB T101-i-1-1. |
| Bosnia | Ethrog | <i>Bactrocera cucurbitae</i> , <i>B. dorsalis</i> , <i>B. tryoni</i> , <i>Brevipalpus chilensis</i> , <i>Ceratitis capitata</i> , <i>Lobesia botrana</i> . | CT T107-a. MB&CT T108-a-1 or T108-a-2 or T108-a-3. |
| Brazil | Horseradish | <i>Baris lepidii</i> | MB T101-i-2. |
| | Apple, grape (prohibited into California). | Species of <i>Anastrepha</i> (other than <i>Anastrepha ludens</i>), <i>Ceratitis capitata</i> . | CT T107-a-1. |
| | Mango | <i>Ceratitis capitata</i> , <i>Anastrepha</i> spp., <i>Anastrepha ludens</i> . | HWD T102-a. |
| Bulgaria | Okra | <i>Pectinophora gossypiella</i> | MB T101-p-2. |
| | Grape | <i>Lobesia botrana</i> | MB T101-h-2. |
| | | <i>Ceratitis capitata</i> | CT T107-a or MB T101-h-2-1. |
| | | <i>Ceratitis capitata</i> , <i>Lobesia botrana</i> . | MB T101-h-2-1. |
| | | <i>Bactrocera cucurbitae</i> , <i>B. dorsalis</i> , <i>B. tryoni</i> , <i>Brevipalpus chilensis</i> , <i>Ceratitis capitata</i> , <i>Lobesia botrana</i> . | MB&CT T108-a-1 or T108-a-2 or T108-a-3. |
| Cayman Islands | Horseradish | <i>Baris lepidii</i> | MB T101-i-2. |
| | Bean (pod or shelled), pigeon pea (pod). | <i>Cydia fabivora</i> , <i>Epinotia aporema</i> , <i>Maruca testulalis</i> , and leafminers. | MB T101-k-2. |
| Chile (all provinces except provinces of Region 1 or Chanaral Township of Region 3). | Okra (pod) | <i>Pectinophora gossypiella</i> | MB T101-p-2. |
| | Apricot, nectarine, peach, plum, plumcot. | External feeders | MB T101-a-3. |
| | Cherimoya | <i>Brevipalpus chilensis</i> | Misc. T102-b (see § 319.56-2z of this chapter for additional treatment information) |
| | Grape | External feeders | MB T101-i-2-1. |
| | Horseradish (to Hawaii) | <i>Baris lepidii</i> | MB T101-i-2. |
| | Lemon (smooth skin) | External feeders, <i>Brevipalpus chilensis</i> . | MB T101-n-2-1. |
| | Lime | <i>Brevipalpus chilensis</i> | Misc. T102-b-1. |
| | Passion fruit | External feeders, <i>Brevipalpus chilensis</i> . | MB T101-n-2-1. |
| | Tomato | <i>Brevipalpus chilensis</i> | Misc. T102-b-2. |
| | Apple, cherry, pear, quince | External feeders | MB T101-a-3. |
| | | <i>Ceratitis capitata</i> | CT T107-a. |
| Chile (all provinces of Region 1 or Chanaral Township of Region 3). | | <i>Bactrocera cucurbitae</i> , <i>B. dorsalis</i> , <i>B. tryoni</i> , <i>Brevipalpus chilensis</i> , <i>Ceratitis capitata</i> , <i>Lobesia botrana</i> . | MB&CT T108-a-1 or T108-a-2 or T108-a-3. |
| | Apricot | <i>Ceratitis capitata</i> and external feeders. | CT T107-a and MB T101-a-3. |
| | | <i>Bactrocera cucurbitae</i> , <i>B. dorsalis</i> , <i>B. tryoni</i> , <i>Brevipalpus chilensis</i> , <i>Ceratitis capitata</i> , <i>Lobesia botrana</i> . | MB&CT T108-a-1 or T108-a-2 or T108-a-3. |
| | Avocado | <i>Bactrocera cucurbitae</i> , <i>B. dorsalis</i> , <i>B. tryoni</i> , <i>Brevipalpus chilensis</i> , <i>Ceratitis capitata</i> , <i>Lobesia botrana</i> . | MB&CT T108-a-1 or T108-a-2 or T108-a-3. |

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| Location | Commodity | Pest | Treatment schedule |
|------------|---|--|---|
| China | Babaco (fruit) | <i>Ceratitis capitata</i> , <i>Bactrocera cucurbitae</i> , <i>B. dorsalis</i> . | VH T106-b-3. |
| | Blueberry | External feeders | MB T103-d-1. |
| | Grape | <i>Ceratitis capitata</i> | MB T101-i-1-1. |
| | | <i>Ceratitis capitata</i> | CT T107-a. |
| | | External feeders | MB T101-i-2-1. |
| | | <i>Bactrocera cucurbitae</i> , <i>B. dorsalis</i> , <i>B. tryoni</i> , <i>Brevipalpus chilensis</i> , <i>Ceratitis capitata</i> , <i>Lobesia botrana</i> . | MB&CT T108-a-1 or T108-a-2 or T108-a-3. |
| | Horseradish (to Hawaii) | <i>Baris lepidii</i> | MB T101-i-2. |
| | Kiwi | <i>Ceratitis capitata</i> | CT T107-a. |
| | | <i>Bactrocera cucurbitae</i> , <i>B. dorsalis</i> , <i>B. tryoni</i> , <i>Brevipalpus chilensis</i> , <i>Ceratitis capitata</i> , <i>Lobesia botrana</i> . | MB&CT T108-a-1 or T108-a-2 or T108-a-3. |
| | Lemon (smooth skinned) | External feeders, <i>Brevipalpus chilensis</i> . | MB T101-n-2-1. |
| | Lime | <i>Brevipalpus chilensis</i> | Misc. T102-b-2. |
| | | External feeders, <i>Brevipalpus chilensis</i> . | MB T101-n-2-1. |
| | Loquat | <i>Ceratitis capitata</i> | CT T107-a. |
| | Mango | <i>Anastrepha</i> spp., <i>Anastrepha ludens</i> , <i>Ceratitis capitata</i> . | HWD T102-a. |
| | Mountain papaya | <i>Bactrocera cucurbitae</i> , <i>B. dorsalis</i> , <i>Ceratitis capitata</i> . | VH T106-b-3 or FHA T103-d-1. |
| | Nectarine | <i>Ceratitis capitata</i> | CT T107-a. |
| | Papaya | External feeders | MB T101-a-3. |
| | Peach | <i>Bactrocera cucurbitae</i> , <i>B. dorsalis</i> , <i>Ceratitis capitata</i> . | VH T106-b-4 or FHA T103-d-2. |
| | Persimmon, sand pear | <i>Ceratitis capitata</i> | CT T107-a. |
| | Plum, plumcot | External feeders | MB T101-a-3. |
| | | <i>Ceratitis capitata</i> | CT T107-a. |
| | | <i>Bactrocera cucurbitae</i> , <i>B. dorsalis</i> , <i>B. tryoni</i> , <i>Brevipalpus chilensis</i> , <i>Ceratitis capitata</i> , <i>Lobesia botrana</i> . | MB&CT T108-a-1 or T108-a-2 or T108-a-3. |
| | | External feeders | MB T101-a-3. |
| | <i>Opuntia</i> spp. | <i>Ceratitis capitata</i> | MB T101-d-3. |
| | Tomato | <i>Scrobipalpula absoluta</i> , <i>Rhagoletis pomonella</i> . | MB T101-c-3-1. |
| | Litchi | <i>Bactrocera cucurbitae</i> , <i>B. dorsalis</i> , <i>Conopomorpha sinensis</i> . | CT T107-h. |
| Colombia | Longan | <i>Bactrocera dorsalis</i> and <i>B. curcumiae</i> . | CT T107-j. |
| | Pear (Ya variety), Shandong Province only. | <i>Bactrocera cucurbitae</i> , <i>B. dorsalis</i> , <i>Eutetraphyphus orientalis</i> . | CT T107-f. |
| | Sand pear | <i>Bactrocera cucurbitae</i> , <i>B. dorsalis</i> , <i>Eutetraphyphus orientalis</i> . | CT T107-f. |
| | Bean, garden | <i>Cydia fabriavora</i> , <i>Epinotia aporema</i> , <i>Maruca testulalis</i> , and leafminers. | MB T101-k-2 or MB T101-k-2-1. |
| | Blueberry | <i>Ceratitis capitata</i> | MB T101-i-1-1. |
| | Cape gooseberry | <i>Ceratitis capitata</i> | CT T107-a. |
| | Grape | Species of <i>Anastrepha</i> (other than <i>Anastrepha ludens</i>). | CT T107-c. |
| Costa Rica | Grapefruit, orange, plum, tangerine, pomegranate. | <i>Anastrepha ludens</i> | CT T107-b. |
| | Okra | <i>Pectinophora gossypiella</i> | MB T101-p-2. |
| | Tuna | <i>Ceratitis capitata</i> | MB T101-d-3. |
| | Yellow pitaya | <i>Ceratitis capitata</i> and <i>Anastrepha fraterculus</i> . | VH T106-e. |
| | Bean, garden | <i>Cydia fabriavora</i> , <i>Epinotia aporema</i> , <i>Maruca testulalis</i> , and leafminers. | MB T101-k-2 or MB T101-k-2-1. |
| | Bean, lima (pod or shelled), pigeon pea (pod or shelled). | <i>Cydia fabriavora</i> , <i>Epinotia aporema</i> , <i>Maruca testulalis</i> , and leaf miners. | MB T101-k-2. |
| | Ethrog | <i>Ceratitis capitata</i> | CT T107-a. |

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| Location | Commodity | Pest | Treatment schedule |
|--------------------------|--|---|---|
| Croatia | Grapefruit, orange, tangerine Mango | <i>Bactrocera MB&CT cucurbitae, B. dorsalis, B. tryoni, Brevipalpus chilensis, Ceratitis capitata, Lobesia botrana.</i> <i>Anastrepha ludens</i> | T108-a-1 or T108-a-2 or T108-a-3. |
| Croatia | Ethrog | <i>Ceratitis capitata, Anastrepha spp., Anastrepha ludens.</i> <i>Ceratitis capitata</i> | CT T107-b. HWD T102-a. |
| Cyprus | Horseradish | <i>Bactrocera cucurbitae, B. dorsalis, B. tryoni, Brevipalpus chilensis, Ceratitis capitata, Lobesia botrana.</i> | CT T107-a. |
| Cyprus | Ethrog | <i>Baris lepidii</i> | MB&CT T108-a-1 or T108-a-2 or T108-a-3. |
| Cyprus | Grape | <i>Ceratitis capitata</i> | MB T101-1-2. |
| Czech Republic | Grapefruit, orange, tangerine | <i>Bactrocera cucurbitae, B. dorsalis, B. tryoni, Brevipalpus chilensis, Ceratitis capitata, Lobesia botrana.</i> | CT T107-a. |
| Denmark | Horseradish | <i>Ceratitis capitata</i> | MB&CT T108-a-1 or T108-a-2 or T108-a-3. |
| Dominica | Bean (pod), pigeon pea (pod) | <i>Baris lepidii</i> | MB T101-h-2. |
| Dominican Republic | Okra (pod) | <i>Ceratitis capitata</i> | CT T107-a. |
| Dominican Republic | Bean (pod) | <i>Baris lepidii</i> | MB T101-h-2-1. |
| Dominican Republic | Goa bean (pod or shelled) | <i>Bactrocera cucurbitae, B. dorsalis, B. tryoni, Brevipalpus chilensis, Ceratitis capitata, Lobesia botrana.</i> | MB T101-h-2-1. |
| Dominican Republic | Grape | <i>Cydia fabivora, Epinotia aporema, Maruca testulalis, and leafminers.</i> | MB T101-k-2. |
| Dominican Republic | Hyacinth bean | <i>Pectinophora gossypiella</i> | MB T101-p-2. |
| Dominican Republic | Pigeon pea (pod or shelled) .. | <i>Cydia fabivora, Epinotia aporema, Maruca testulalis, and leafminers.</i> | MB T101-k-2-1. |
| Dominican Republic | Okra (pod) | <i>Cydia fabivora, Epinotia aporema, Maruca testulalis, and leafminers.</i> | MB T101-p-2. |
| Dominican Republic | Yard long bean (pod) | <i>Pectinophora gossypiella</i> | MB T101-k-2. |
| Ecuador | Apple | <i>Cydia fabivora, Epinotia aporema, Maruca testulalis, and leafminers.</i> | MB T101-p-2. |
| Ecuador | Bean (pod or shelled), pigeon pea (pod or shelled) | <i>Species of Anastrepha (other than <i>Anastrepha ludens</i>), Ceratitis capitata.</i> | MB T101-k-2. |
| Ecuador | Blueberry | <i>Bactrocera cucurbitae, B. dorsalis, B. tryoni, Brevipalpus chilensis, Ceratitis capitata, Lobesia botrana.</i> | MB&CT T108-a-1 or T108-a-2 or T108-a-3. |
| Ecuador | Ethrog | <i>Cydia fabivora, Epinotia aporema, Maruca testulalis, and leafminers.</i> | MB T101-i-1-1. |
| Ecuador | Grapefruit, orange, tangerine | <i>Ceratitis capitata</i> | CT T107-a. |
| Ecuador | | <i>Bactrocera cucurbitae, B. dorsalis, B. tryoni, Brevipalpus chilensis, Ceratitis capitata, Lobesia botrana.</i> | MB&CT T108-a-1 or T108-a-2 or T108-a-3. |
| Ecuador | | <i>Species of Anastrepha (other than <i>Anastrepha ludens</i>), Ceratitis capitata.</i> | CT T107-a-1. |

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|----------------------------|-------------------------------------|--|---|
| Egypt | Mango | <i>Ceratitis capitata</i> , <i>Anastrepha</i> spp., <i>Anastrepha ludens</i> . | HWD T102-a. |
| | Okra | <i>Pectinophora gossypiella</i> | MB T101-p-2. |
| | Pea (pod) | <i>Cydia fabivora</i> , <i>Epinotia aporema</i> , <i>Maruca testulalis</i> , and leafminers. | MB T101-k-2 or MB T101-k-2-1. |
| | Grape | <i>Lobesia botrana</i> | MB T101-h-2. |
| | | <i>Ceratitis capitata</i> | CT T107-a or MB T101-h-2-1. |
| | | <i>Ceratitis capitata</i> , <i>Lobesia botrana</i> . | MB T101-h-2-1. |
| | | <i>Bactrocera cucurbitae</i> , <i>B. dorsalis</i> , <i>B. tryoni</i> , <i>Brevipalpus chilensis</i> , <i>Ceratitis capitata</i> , <i>Lobesia botrana</i> . | MB&CT T108-a-1 or T108-a-2 or T108-a-3. |
| | Orange | <i>Ceratitis capitata</i> | CT T107-a. |
| | Pea (pod or shelled) | <i>Cydia fabivora</i> , <i>Epinotia aporema</i> , <i>Maruca testulalis</i> , and leafminers. | MB T101-k-2 or MB T101-k-2-1. |
| | Pear | <i>Ceratitis capitata</i> | CT T107-a. |
| El Salvador | Bean, garden and lima | <i>Bactrocera cucurbitae</i> , <i>B. dorsalis</i> , <i>B. tryoni</i> , <i>Brevipalpus chilensis</i> , <i>Ceratitis capitata</i> , <i>Lobesia botrana</i> . | MB&CT T108-a-1 or T108-a-2 or T108-a-3. |
| | Ethrog | <i>Cydia fabivora</i> , <i>Epinotia aporema</i> , <i>Maruca testulalis</i> , and leafminers. | MB T101-k-2 or MB T101-k-2-1. |
| | Grapefruit, orange, tangerine | <i>Ceratitis capitata</i> | CT T107-a. |
| | Pigeon pea (pod or shelled) | <i>Bactrocera cucurbitae</i> , <i>B. dorsalis</i> , <i>B. tryoni</i> , <i>Brevipalpus chilensis</i> , <i>Ceratitis capitata</i> , <i>Lobesia botrana</i> . | MB&CT T108-a-1 or T108-a-2 or T108-a-3. |
| | Grape | <i>Anastrepha ludens</i> | CT T107-b. |
| Estonia | | <i>Cydia fabivora</i> , <i>Epinotia aporema</i> , <i>Maruca testulalis</i> , and leafminers. | MB T101-k-2. |
| | | <i>Lobesia botrana</i> | CT T107-a or MB T101-h-2-1. |
| | | <i>Ceratitis capitata</i> | MB T101-h-2-1. |
| | | <i>Ceratitis capitata</i> , <i>Lobesia botrana</i> . | MB&CT T108-a-1 or T108-a-2 or T108-a-3. |
| Finland | Horseradish | <i>Bactrocera cucurbitae</i> , <i>B. dorsalis</i> , <i>B. tryoni</i> , <i>Brevipalpus chilensis</i> , <i>Ceratitis capitata</i> , <i>Lobesia botrana</i> . | MB T101-1-2. |
| | Horseradish (to Hawaii) | <i>Baris lepidii</i> | MB T101-1-2. |
| France | Apple, pear | <i>Ceratitis capitata</i> | CT T107-a. |
| | Ethrog, kiwi | <i>Ceratitis capitata</i> | CT T107-a. |
| Georgia, Republic of | Grape | <i>Bactrocera cucurbitae</i> , <i>B. dorsalis</i> , <i>B. tryoni</i> , <i>Brevipalpus chilensis</i> , <i>Ceratitis capitata</i> , <i>Lobesia botrana</i> . | MB&CT T108-a-1 or T108-a-2 or T108-a-3. |
| | | <i>Lobesia botrana</i> | MB T101-h-2. |
| | Horseradish (to Hawaii) | <i>Ceratitis capitata</i> | CT T107-a or MB T101-h-2-1. |
| | | <i>Ceratitis capitata</i> , <i>Lobesia botrana</i> . | MB T101-h-2-1. |
| | Grape | <i>Baris lepidii</i> | MB T101-1-2. |
| | | <i>Lobesia botrana</i> | MB T101-h-2. |
| | Horseradish | <i>Ceratitis capitata</i> | CT T107-a or MB T101-h-2-1. |
| | | <i>Ceratitis capitata</i> , <i>Lobesia botrana</i> . | MB T101-h-2-1. |
| | Grape | <i>Bactrocera cucurbitae</i> , <i>B. dorsalis</i> , <i>B. tryoni</i> , <i>Brevipalpus chilensis</i> , <i>Ceratitis capitata</i> , <i>Lobesia botrana</i> . | MB&CT T108-a-1 or T108-a-2 or T108-a-3. |
| | | <i>Baris lepidii</i> | MB T101-1-2. |
| Germany | Horseradish | <i>Lobesia botrana</i> | MB T101-h-2. |
| | Grape | | |

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| Location | Commodity | Pest | Treatment schedule |
|---|--------------------------------------|---|---|
| Greece (includes Rhodes) | Horseradish | <i>Ceratitis capitata</i> | CT T107-a or MB T101-h-2-1. |
| | | <i>Ceratitis capitata, Lobesia botrana</i> . | MB T101-h-2-1. |
| | | <i>Bactrocera cucurbitae, E. B. dorsalis, B. tryoni, Brevipalpus chilensis, Ceratitis capitata, Lobesia botrana</i> . | MB&CT T108-a-1 or T108-a-2 or T108-a-3. |
| | | <i>Baris lepidii</i> | MB T101-1-2. |
| | | <i>Lobesia botrana</i> | MB T101-h-2. |
| | Grape | <i>Ceratitis capitata</i> | CT T107-a or MB T101-h-2-1. |
| | | <i>Ceratitis capitata, Lobesia botrana</i> . | MB T101-h-2-1. |
| | | <i>Bactrocera cucurbitae, B. dorsalis, B. tryoni, Brevipalpus chilensis, Ceratitis capitata, Lobesia botrana</i> . | MB&CT T108-a-1 or T108-a-2 or T108-a-3. |
| | | <i>Baris lepidii</i> | MB T101-1-2. |
| | | <i>Ceratitis capitata</i> | CT T107-a. |
| Grenada | Horseradish | <i>Bactrocera cucurbitae, B. dorsalis, B. tryoni, Brevipalpus chilensis, Ceratitis capitata, Lobesia botrana</i> . | MB&CT T108-a-1 or T108-a-2 or T108-a-3. |
| | | <i>Baris lepidii</i> | MB T101-1-2. |
| | Kiwi, tangerine, ethrog | <i>Ceratitis capitata</i> | CT T107-a. |
| | | <i>Cydia fabivora, Epinotia aporema, Maruca testulalis, and leafminers</i> . | MB&CT T108-a-1 or T108-a-2 or T108-a-3. |
| Guadeloupe, Dept of (FR) and St. Barthelemy. | Orange, pomegranate | <i>Ceratitis capitata</i> | CT T107-a. |
| | | <i>Bean (pod)</i> | MB T101-k-2. |
| | Okra | <i>Okra</i> | MB T101-p-2. |
| | | <i>Pigeon pea (pod or shelled)</i> | MB T101-k-2. |
| Guatemala | Okra (pod) | <i>Okra (pod)</i> | MB T101-p-2. |
| | | <i>Pigeon pea (pod or shelled), bean (pod)</i> . | MB T101-k-2. |
| | Ethrog | <i>Cydia fabivora, Epinotia aporema, Maruca testulalis, and leafminers</i> . | CT T107-a. |
| | | <i>Ceratitis capitata</i> | MB&CT T108-a-1 or T108-a-2 or T108-a-3. |
| Guyana | Grapefruit, orange, plum, tangerine. | <i>Grapefruit, orange, plum, tangerine.</i> | CT T107-b. |
| | | <i>Mango</i> | CER T102-a. |
| | Okra (pod) | <i>Okra (pod)</i> | MB T101-p-2. |
| | | <i>Pigeon pea (pod or shelled)</i> | MB T101-k-2. |
| Haiti | Tuna | <i>Ceratitis capitata</i> | MB T101-d-3. |
| | | <i>Species of Anastrepha (other than <i>Anastrepha ludens</i>)</i> . | CT T107-c. |
| | Apple, orange | <i>Bean (pod or shelled)</i> | MB T101-k-2. |
| | | <i>Ceratitis capitata</i> | MB T101-p-2. |
| Hungary | Okra (pod) | <i>Species of Anastrepha (other than <i>Anastrepha ludens</i>)</i> . | CT T107-c. |
| | | <i>Apricot, pomegranate</i> | CER T102-a. |
| | Mango | <i>Ceratitis capitata, Anastrepha spp., <i>Anastrepha ludens</i></i> . | MB T101-k-2. |
| | | <i>Bean (pod), pigeon pea (pod or shelled)</i> . | CYD T101-p-2. |
| Hungary | Okra (pod) | <i>Ceratitis capitata, Anastrepha spp., <i>Anastrepha ludens</i></i> . | MB T101-p-2. |
| | | <i>Grape</i> | MB T101-h-2. |
| | <i>Ceratitis capitata</i> | <i>Ceratitis capitata, Lobesia botrana</i> . | CT T107-a or MB T101-h-2-1. |
| | | <i>Ceratitis capitata, Lobesia botrana</i> . | MB T101-h-2-1. |

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| Location | Commodity | Pest | Treatment schedule |
|------------------------------|---|--|---|
| India | Horseradish | <i>Bactrocera cucurbitae</i> , <i>B. dorsalis</i> , <i>B. tryoni</i> , <i>Brevipalpus chilensis</i> , <i>Ceratitis capitata</i> , <i>Lobesia botrana</i> . | MB&CT T108-a-1 or T108-a-2 or T108-a-3. |
| | Litchi (fruit) | <i>Baris lepidii</i> | MB T101-1-2. CT T107-f. |
| Israel (includes Gaza) | Apple, apricot, nectarine, peach, pear, plum. | <i>Bactrocera cucurbitae</i> , <i>B. dorsalis Eutetranychus orientalis</i> . <i>Ceratitis capitata</i> | CT T107-a. |
| | Avocado | <i>Bactrocera cucurbitae</i> , <i>B. dorsalis</i> , <i>Brevipalpus chilensis</i> , <i>Ceratitis capitata</i> , <i>Lobesia botrana</i> . | MB T101-c-1. |
| | <i>Brassica oleracea</i> | <i>Bactrocera cucurbitae</i> , <i>B. dorsalis</i> , <i>Ceratitis capitata</i> . External feeders and leafminers. | MB T101-n-2. |
| | Ethrog | <i>Ceratitis capitata</i> | CT T107-a. |
| | | <i>Bactrocera cucurbitae</i> , <i>B. dorsalis</i> , <i>B. tryoni</i> , <i>Brevipalpus chilensis</i> , <i>Ceratitis capitata</i> , <i>Lobesia botrana</i> . | MB&CT T108-a-1 or T108-a-2 or T108-a-3. |
| | Grape | <i>Lobesia botrana</i> | MB T101-h-2. CT T107-a or MB T101-h-2-1. |
| | | <i>Ceratitis capitata</i> , <i>Lobesia botrana</i> . | MB T101-h-2-1. |
| | | <i>Bactrocera cucurbitae</i> , <i>B. dorsalis</i> , <i>B. tryoni</i> , <i>Brevipalpus chilensis</i> , <i>Ceratitis capitata</i> , <i>Lobesia botrana</i> . | MB&CT T108-a-1 or T108-a-2 or T108-a-3. |
| | | <i>Ceratitis capitata</i> | CT T107-a. |
| | Grapefruit, litchi, loquat, orange, persimmon, pomegranate, pummelo, tangerine. | | |
| | Horseradish root (to Hawaii) | <i>Baris lepidii</i> | MB T101-1-2. |
| | Lettuce (leaf), field grown | External feeders and leafminers. | MB T101-n-2. |
| | Pea (pod or shelled) | <i>Cydia fabivora</i> , <i>Epinotia aporema</i> , <i>Maruca testulalis</i> , and leafminers. | MB T101-k-2. |
| | Tuna (fruit) | <i>Ceratitis capitata</i> | MB T101-d-3. |
| Italy | Ethrog (North Atlantic ports only). | <i>Ceratitis capitata</i> | CT T107-a. |
| | Grape | <i>Lobesia botrana</i> | MB T101-h-2. CT T107-a or MB T101-h-2-1. |
| | | <i>Ceratitis capitata</i> , <i>Lobesia botrana</i> . | MB T101-h-2-1. |
| | | <i>Bactrocera cucurbitae</i> , <i>B. dorsalis</i> , <i>B. tryoni</i> , <i>Brevipalpus chilensis</i> , <i>Ceratitis capitata</i> , <i>Lobesia botrana</i> . | MB&CT T108-a-1 or T108-a-2 or T108-a-3. |
| | | <i>Ceratitis capitata</i> | CT T107-a. |
| | Grapefruit, orange, persimmon, tangerine. | | |
| | Horseradish | <i>Baris lepidii</i> | MB T101-1-2. |
| | Kiwi (fruit) | <i>Ceratitis capitata</i> | CT T107-a. |
| | | <i>Bactrocera cucurbitae</i> , <i>B. dorsalis</i> , <i>B. tryoni</i> , <i>Brevipalpus chilensis</i> , <i>Ceratitis capitata</i> , <i>Lobesia botrana</i> . | MB&CT T108-a-1 or T108-a-2 or T108-a-3. |
| | Pea (pod or shelled) | <i>Cydia fabivora</i> , <i>Epinotia aporema</i> , <i>Maruca testulalis</i> , and leafminers. | MB T101-k-2. |
| | Tuna (fruit) | <i>Ceratitis capitata</i> | MB T101-d-3. |
| Jamaica | Bean (pod), pigeon pea (pod) | <i>Cydia fabivora</i> , <i>Epinotia aporema</i> , <i>Maruca testulalis</i> , and leafminers. | MB T101-k-2. |
| | Ivy gourd (fruit) | <i>Cydia fabivora</i> , <i>Epinotia aporema</i> , <i>Maruca testulalis</i> , and leafminers. | MB T101-k-2. |
| | Okra (pod) | <i>Pectinophora gossypiella</i> | MB T101-p-2. |

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| Location | Commodity | Pest | Treatment schedule |
|---|-------------------------------|--|---|
| Japan (includes Bonian Island, Ryukyu, Island Ryukyu Island, Tokara Island, Volcano Islands). | Thyme | External feeders and leafminers. | MB T101-n-2. |
| | Apple (Fuji only) | <i>Carposina niponensis</i> , <i>Conogethes punctiferalis</i> , <i>Tetranychus viennensis</i> , <i>T. kanzawai</i> . | CT&MB T109-a-1 or T109-a-2. |
| Jordan | Cabbage (to Hawaii) | External feeders and leafminers. | MB T101-n-2. |
| | Horseradish (to Hawaii) | <i>Baris lepidii</i> | MB T101-1-2. |
| | Apple, persimmon | <i>Ceratitis capitata</i> | CT T107-a. |
| | Grape | <i>Lobesia botrana</i> | MB T101-h-2. |
| | | <i>Ceratitis capitata</i> , | CT T107-a or MB T1011-h-2-1. |
| Kazakhstan | Grape | <i>Ceratitis capitata</i> , <i>Lobesia botrana</i> . <i>Lobesia botrana</i> | MB T101-h-2-1. |
| | | <i>Ceratitis capitata</i> | MB T101-h-2-1. |
| | | <i>Bactrocera cucurbitae</i> , <i>B. dorsalis</i> , <i>B. tryoni</i> , <i>Brevipalpus chilensis</i> , <i>Ceratitis capitata</i> , <i>Lobesia botrana</i> . | MB&CT T108a-1 or T108-a-2 or T108-a-3. |
| Korea, Republic of (South) | Horseradish | <i>Baris lepidii</i> | MB T101-1-2. |
| | Apple (Fuji only) | <i>Carposina niponensis</i> , <i>Conogethes punctiferalis</i> , <i>Tetranychus viennensis</i> , <i>T. kanzawai</i> . | CT&MB T109-a-1 or T109-a-2. |
| Kyrgyzstan | Grape | <i>Lobesia botrana</i> | MB T101-h-2. |
| | | <i>Ceratitis capitata</i> | CT T107-a or MB T101-h-2-1. |
| | | <i>Ceratitis capitata</i> , <i>Lobesia botrana</i> . | MB T101-h-2-1. |
| | | <i>Bactrocera cucurbitae</i> , <i>B. dorsalis</i> , <i>B. tryoni</i> , <i>Brevipalpus chilensis</i> , <i>Ceratitis capitata</i> , <i>Lobesia botrana</i> . | MB&CT T108-a-1 or T108-a-2 or T108-a-3. |
| Latvia | Horseradish | <i>Baris lepidii</i> | MB T101-1-2. |
| | Grape | <i>Lobesia botrana</i> | MB T101-h-2. |
| | | <i>Ceratitis capitata</i> | CT T107-a or MB T101-h-2-1. |
| | | <i>Ceratitis capitata</i> , <i>Lobesia botrana</i> . | MB T101-h-2-1. |
| | | <i>Bactrocera cucurbitae</i> , <i>B. dorsalis</i> , <i>B. tryoni</i> , <i>Brevipalpus chilensis</i> , <i>Ceratitis capitata</i> , <i>Lobesia botrana</i> . | MB&CT T108-a-1 or T108-a-2 or T108-a-3. |
| Lebanon | Horseradish | <i>Baris lepidii</i> | MB T101-1-2. |
| Libya | Apple | <i>Ceratitis capitata</i> | CT T107-a. |
| | Grape | <i>Lobesia botrana</i> | MB T101-h-2. |
| | | <i>Ceratitis capitata</i> | CT T107-a or MB T101-h-2-1. |
| | | <i>Ceratitis capitata</i> , <i>Lobesia botrana</i> . | MB T101-h-2-1. |
| | | <i>Bactrocera cucurbitae</i> , <i>B. dorsalis</i> , <i>B. tryoni</i> , <i>Brevipalpus chilensis</i> , <i>Ceratitis capitata</i> , <i>Lobesia botrana</i> . | MB&CT T108-a-1 or T108-a-2 or T108-a-3. |
| Lithuania | Grape | <i>Lobesia botrana</i> | MB T101-h-2. |
| | | <i>Ceratitis capitata</i> | CT T107-a or MB T101-h-2-1. |
| | | <i>Ceratitis capitata</i> , <i>Lobesia botrana</i> . | MB T101-h-2-1. |
| | | <i>Bactrocera cucurbitae</i> , <i>B. dorsalis</i> , <i>B. tryoni</i> , <i>Brevipalpus chilensis</i> , <i>Ceratitis capitata</i> , <i>Lobesia botrana</i> . | MB&CT T108-a-1 or T108-a-2 or T108-a-3. |
| Luxembourg | Horseradish | <i>Baris lepidii</i> | MB T101-1-2. |
| | Grape | <i>Lobesia botrana</i> | MB T101-h-2. |
| | | <i>Ceratitis capitata</i> | CT T107-a or MB T101-h-2-1. |
| | | <i>Ceratitis capitata</i> , <i>Lobesia botrana</i> . | MB T101-h-2-1. |

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|---------------------------------|--|---|---|
| Macedonia | Ethrog | <i>Bactrocera cucurbitae</i> , <i>B. dorsalis</i> , <i>B. tryoni</i> , <i>Brevipalpus chilensis</i> , <i>Ceratitis capitata</i> , <i>Lobesia botrana</i> . <i>Ceratitis capitata</i> | MB&CT T108-a-1 or T108-a-2 or T108-a-3. |
| Martinique, Dept. of (FR) | Horseradish | <i>Bactrocera cucurbitae</i> , <i>B. dorsalis</i> , <i>B. tryoni</i> , <i>Brevipalpus chilensis</i> , <i>Ceratitis capitata</i> , <i>Lobesia botrana</i> . | CT T107-a. MB&CT T108-a-1 or T108-a-2 or T108-a-3. |
| Mexico | Ethrog | <i>Baris lepidii</i> | MB T101-1-2. CT T107-a. MB&CT T108-a-1 or T108-a-2 or T108-a-3. |
| | Horseradish | <i>Ceratitis capitata</i> | |
| | Apple, cherry, peach, plum, tangerine. | <i>Bactrocera cucurbitae</i> , <i>B. dorsalis</i> , <i>B. tryoni</i> , <i>Brevipalpus chilensis</i> , <i>Ceratitis capitata</i> , <i>Lobesia botrana</i> . | |
| | <i>Brassica</i> spp., <i>Chenopodium</i> spp., cilantro. | <i>Baris lepidii</i> | MB T101-1-2. CT T107-b. |
| | Carambola | <i>Anastrepha ludens</i> | MB T101-b-1. |
| | Grapefruit | External feeders such as <i>Noctuidae</i> spp., <i>Thrips</i> spp. (except <i>Scirtothrips dorsalis</i> from Thailand), <i>Copitarsia</i> spp.. <i>Species of Anastrepha</i> (other than <i>Anastrepha ludens</i>). <i>Anastrepha ludens</i> | CT T107-c. |
| | Horseradish | <i>Anastrepha</i> spp. | CT T107-b. MB T101-j-2-1 or FHA T103-a-1 or VH T106-a-2. |
| | Mango | <i>Baris lepidii</i> | MB T101-1-2. VH T106-a-3. HWD T102-a. |
| | Okra | <i>Anastrepha ludens</i> | FHA T103-c-1. |
| | Orange | <i>Ceratitis capitata</i> , <i>Anastrepha ludens</i> , <i>Anastrepha ludens</i> , <i>Anastrepha obliqua</i> , <i>Anastrepha serpentina</i> . <i>Pectinophora gossypiella</i> | MB T101-p-2. CT T107-b. MB T101-j-2-1 or FHA T103-a-1. VH T106-a-4. |
| | Pigeon pea (pod or shelled), bean (pod or shelled). | <i>Anastrepha</i> spp. (includes <i>Anastrepha ludens</i>). <i>Cydia fabivora</i> , <i>Epinotia aporema</i> , <i>Maruca testulalis</i> . | MB T101-k-2. |
| | Tangerine | <i>Anastrepha</i> spp. | MB T101-j-2-1 or FHA T103-a-1 or VH T106-a-1 or VH T106-a-1-1. MB T101-h-2. CT T107-a or MB T101-h-2-1. MB T101-h-2-1. |
| Moldova | Grape | <i>Lobesia botrana</i> | MB T101-h-2-1 or T108-a-2 or T108-a-3. |
| | | <i>Ceratitis capitata</i> | |
| | | <i>Ceratitis capitata</i> , <i>Lobesia botrana</i> . | |
| | | <i>Bactrocera cucurbitae</i> , <i>B. dorsalis</i> , <i>B. tryoni</i> , <i>Brevipalpus chilensis</i> , <i>Ceratitis capitata</i> , <i>Lobesia botrana</i> . | |
| Montserrat | Horseradish | <i>Baris lepidii</i> | MB T101-1-2. MB T101-k-2. |
| | Bean (pod), pigeon pea (pod) | <i>Cydia fabivora</i> , <i>Epinotia aporema</i> , <i>Maruca testulalis</i> , and leafminers. | |
| Morocco | Okra | <i>Pectinophora gossypiella</i> | MB T101-p-2. CT T107-a. |
| | Apricot, peach, pear, plum | <i>Ceratitis capitata</i> | MB&CT T108-a-1 or T108-a-2 or T108-a-3. |
| | Cipollino (bulb/wild onion) | <i>Bactrocera cucurbitae</i> , <i>B. dorsalis</i> , <i>B. tryoni</i> , <i>Brevipalpus chilensis</i> , <i>Ceratitis capitata</i> , <i>Lobesia botrana</i> . | |
| | Ethrog | <i>Exosoma lusitanica</i> | MB T101-w-1. CT T107-a. |
| | | <i>Ceratitis capitata</i> | MB&CT T108-a-1 or T108-a-2 or T108-a-3. |
| | | <i>Bactrocera cucurbitae</i> , <i>B. dorsalis</i> , <i>B. tryoni</i> , <i>Brevipalpus chilensis</i> , <i>Ceratitis capitata</i> , <i>Lobesia botrana</i> . | |
| | Grape | <i>Lobesia botrana</i> | MB T101-h-2. CT T107-a or MB T101-h-2-1. |
| | | <i>Ceratitis capitata</i> | |

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| Location | Commodity | Pest | Treatment schedule |
|---|---|---|---|
| Namibia | Grapefruit, orange, tangerine Grape | <i>Ceratitis capitata</i> , <i>Lobesia botrana</i> . <i>Bactrocera cucurbitae</i> , <i>B. dorsalis</i> , <i>B. tryoni</i> , <i>Brevipalpus chilensis</i> , <i>Ceratitis capitata</i> , <i>Lobesia botrana</i> . <i>Ceratitis capitata</i> | MB T101-h-2-1. MB&CT T108-a-1 or T108-a-2 or T108-a-3. |
| Netherlands, Kingdom of | Bean, garden | External feeders | CT T107-a. MB T104-a-1. CT T107-e. |
| Netherlands Antilles (includes Bonaire, Curacao, Saba, St. Eustatius). New Zealand | Horseradish (to Hawaii) | <i>Cryptophlebia leucotreta</i> , <i>Ceratitis capitata</i> , <i>Ceratitis rosa</i> , <i>Epichoristodes acerbella</i> . | MB T101-k-2. |
| Nicaragua | Bean (pod or shelled), pigeon pea (pod or shelled). Apple | <i>Cydia fabivora</i> , <i>Epinotia aporema</i> , <i>Maruca testulalis</i> , and leafminers. <i>Baris lepidii</i> | MB T101-1-2. MB T101-k-2. |
| Nicaragua | Asparagus | <i>Halotydeus destructor</i> | MB T101-b-1-1. |
| Nicaragua | Pear | <i>Tortricidae</i> | MB T101-a-1. |
| Nicaragua | Faba bean (pod), green bean (pod), mung bean (pod), pea (pod). Mango | <i>Cydia fabivora</i> , <i>Epinotia aporema</i> , <i>Maruca testulalis</i> , and leafminers. <i>Ceratitis capitata</i> , <i>Anastrepha</i> spp., <i>A. ludens</i> . | MB T101-k-2 or MB T101-k-2-1. |
| Nicaragua | Yard-long-bean (pod) | <i>Cydia fabivora</i> , <i>Epinotia aporema</i> , <i>Maruca testulalis</i> , and leafminers. | HWD T102-a. |
| Norway | Horseradish (to Hawaii) | <i>Baris lepidii</i> | MB T101-1-2. |
| Panama and canal zone | Bean (garden) and lima (pod) | <i>Cydia fabivora</i> , <i>Epinotia aporema</i> , <i>Maruca testulalis</i> , and leafminers. | MB T101-k-2 or MB T101-k-2-1. |
| Peru | Ethrog | <i>Ceratitis capitata</i> | CT T107-a. |
| Peru | Grapefruit, orange, tangerine Pigeon pea (pod or shelled) | <i>Bactrocera cucurbitae</i> , <i>B. dorsalis</i> , <i>B. tryoni</i> , <i>Brevipalpus chilensis</i> , <i>Ceratitis capitata</i> , <i>Lobesia botrana</i> . <i>Anastrepha ludens</i> | MB&CT T108-a-1 or T108-a-2 or T108-a-3. |
| Philippines | Asparagus | <i>Cydia fabivora</i> , <i>Epinotia aporema</i> , <i>Maruca testulalis</i> , and leafminers. | MB T101-b-1. |
| Philippines | Bean (pod or shelled) | External feeders | MB T101-k-2. |
| Philippines | Blueberry | <i>Ceratitis capitata</i> | MB T101-i-1-1. |
| Philippines | Grape | Species of <i>Anastrepha</i> (other than <i>Anastrepha ludens</i>), <i>Ceratitis capitata</i> . | CT T107-a-1. |
| Poland | Grapefruit, mandarins or tangerines, sweet oranges, and tangelos. | <i>Anastrepha fraterculus</i> , <i>A. obliqua</i> , <i>A. serpentina</i> , and <i>Ceratitis capitata</i> . | CT T107-a-1 |
| Portugal (includes Azores) | Mango | <i>Ceratitis capitata</i> , <i>Anastrepha</i> spp., <i>Anastrepha ludens</i> . | HWD T102-a. |
| Portugal (includes Azores) | Okra (pod) | <i>Pectinophora gossypiella</i> | MB T101-p-2. |
| Portugal (includes Azores) | Avocado | <i>Bactrocera cucurbitae</i> , <i>B. dorsalis</i> , <i>Ceratitis capitata</i> . | MB T101-c-1. |
| Portugal (includes Azores) | Mango | <i>Bactrocera occipitalis</i> and <i>B. philippinensis</i> . | VH T106-d-1. |
| Portugal (includes Azores) | Horseradish | <i>Baris lepidii</i> | MB T101-1-2. |
| Portugal (includes Azores) | Bean, faba (pod or shelled) | <i>Cydia fabivora</i> , <i>Epinotia aporema</i> , <i>Maruca testulalis</i> , and leafminers. | MB T101-k-2. |
| Portugal (includes Azores) | Ethrog | <i>Ceratitis capitata</i> | CT T107-a. |
| Portugal (includes Azores) | Grape | <i>Bactrocera cucurbitae</i> , <i>B. dorsalis</i> , <i>B. tryoni</i> , <i>Brevipalpus chilensis</i> , <i>Ceratitis capitata</i> , <i>Lobesia botrana</i> . | MB&CT T108-a-1 or T108-a-2 or T108-a-3. |
| Portugal (includes Azores) | Grape | <i>Lobesia botrana</i> | MB T101-h-2. |
| Portugal (includes Azores) | Grape | <i>Ceratitis capitata</i> | CT T107-a or MB T101-h-2-1. |

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|--------------------------------------|---|---|---|
| Romania | Horseradish (to Hawaii) | <i>Ceratitis capitata</i> , <i>Lobesia botrana</i> . <i>Bactrocera cucurbitae</i> , <i>B. dorsalis</i> , <i>B. tryoni</i> , <i>Brevipalpus chilensis</i> , <i>Ceratitis capitata</i> , <i>Lobesia botrana</i> . | MB T101-h-2-1. |
| | Grape | <i>Baris lepidii</i> <i>Lobesia botrana</i> <i>Ceratitis capitata</i> | MB&CT T108-a-1 or T108-a-2 or T108-a-3. |
| Russian Federation | Horseradish | <i>Ceratitis capitata</i> , <i>Lobesia botrana</i> . <i>Ceratitis capitata</i> , <i>Eutetranychus orientalis</i> . <i>Bactrocera cucurbitae</i> , <i>B. dorsalis</i> , <i>B. tryoni</i> , <i>Brevipalpus chilensis</i> , <i>Ceratitis capitata</i> , <i>Lobesia botrana</i> . | MB T101-1-2. MB T101-h-2. CT T107-a or MB T101-h-2-1. MB T101-h-2-1. |
| | Grape | <i>Baris lepidii</i> <i>Lobesia botrana</i> <i>Ceratitis capitata</i> | CT T107-a. MB&CT T108-a-1 or T108-a-2 or T108-a-3. |
| Saint Kitts and Nevis | Horseradish | <i>Ceratitis capitata</i> , <i>Lobesia botrana</i> . <i>Bactrocera cucurbitae</i> , <i>B. dorsalis</i> , <i>B. tryoni</i> , <i>Brevipalpus chilensis</i> , <i>Ceratitis capitata</i> , <i>Lobesia botrana</i> . | MB T101-1-2. MB T101-h-2. CT T107-a or MB T101-h-2-1. MB T101-h-2-1. |
| | Bean (pod), pigeon pea (pod) | <i>Baris lepidii</i> <i>Cydia fabivora</i> , <i>Epinotia aporema</i> , <i>Maruca testulalis</i> , and leafminers. | MB T101-1-2. MB T101-k-2. |
| Saint Lucia | Okra (pod) | <i>Pectinophora gossypiella</i> | MB T101-p-2. |
| | Bean (pod), pigeon pea (pod) | <i>Cydia fabivora</i> , <i>Epinotia aporema</i> , <i>Maruca testulalis</i> , and leafminers. | MB T101-k-2. |
| St. Martin (France and Netherlands). | Okra (pod) | <i>Pectinophora gossypiella</i> | MB T101-p-2. |
| Saint Vincent and the Grenadines. | Bean (pod), pigeon pea (pod) | <i>Cydia fabivora</i> , <i>Epinotia aporema</i> , <i>Maruca testulalis</i> , and leafminers. | MB T101-k-2. |
| Senegal | Okra (pod) | <i>Pectinophora gossypiella</i> | MB T101-p-2. |
| | Bean, garden (pod or shelled) | <i>Cydia fabivora</i> , <i>Epinotia aporema</i> , <i>Maruca testulalis</i> , and leafminers. | MB T101-k-2 or MB T101-k-2-1. |
| Slovakia | Horseradish | <i>Baris lepidii</i> | MB T101-1-2. |
| Slovenia | Ethrog | <i>Ceratitis capitata</i> | CT T107-a. |
| | | <i>Bactrocera cucurbitae</i> , <i>B. dorsalis</i> , <i>B. tryoni</i> , <i>Brevipalpus chilensis</i> , <i>Ceratitis capitata</i> , <i>Lobesia botrana</i> . | MB&CT T108-a-1 or T108-a-2 or T108-a-3. |
| South Africa | Horseradish | <i>Baris lepidii</i> | MB T101-l-2. |
| | Apple, grape, pear | <i>Ceratitis capitata</i> | CT T107-a. |
| | Nectarine, peach, plum | <i>Cryptophlebia leucotreta</i> and <i>Pterandrus rosa</i> . | CT T107-e. |
| | Citrus (fruit, Western Cape Province only). | <i>Cryptophlebia leucotreta</i> and <i>Pterandrus rosa</i> . | CT T107-e. |
| Spain | Apple | <i>Ceratitis capitata</i> | CT T107-a. |
| | | <i>Bactrocera cucurbitae</i> , <i>B. dorsalis</i> , <i>B. tryoni</i> , <i>Brevipalpus chilensis</i> , <i>Ceratitis capitata</i> , <i>Lobesia botrana</i> . | MB&CT T108-a-1 or T108-a-2 or T108-a-3. |
| | Ethrog | <i>Ceratitis capitata</i> | CT T107-a. |
| | | <i>Bactrocera cucurbitae</i> , <i>B. dorsalis</i> , <i>B. tryoni</i> , <i>Brevipalpus chilensis</i> , <i>Ceratitis capitata</i> , <i>Lobesia botrana</i> . | MB&CT T108-a-1 or T108-a-2 or T108-a-3. |
| | Grape | <i>Lobesia botrana</i> | MB T101-h-2. |
| | | <i>Ceratitis capitata</i> | CT T107-a or MB T101-h-2-1. |
| | | <i>Ceratitis capitata</i> , <i>Lobesia botrana</i> . | MB T101-h-2-1. |

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| Location | Commodity | Pest | Treatment schedule |
|----------------------------|--|---|---|
| Suriname | Grapefruit, loquat, orange, tangerine. Horseradish | <i>Bactrocera cucurbitae</i> , <i>B. dorsalis</i> , <i>B. tryoni</i> , <i>Brevipalpus chilensis</i> , <i>Ceratitis capitata</i> , <i>Lobesia botrana</i> . <i>Ceratitis capitata</i> | MB&CT T108-a-1 or T108-a-2 or T108-a-3. CT T107-a. |
| Sweden | Kiwi | <i>Baris lepidii</i> | MB T101-l-2. |
| Switzerland | Lettuce (above ground parts) | <i>Ceratitis capitata</i> | CT T107-a. |
| | | External feeders and leafminers. | MB T101-n-2. |
| | Ortanique (fruit) | <i>Ceratitis capitata</i> | CT T107-a. |
| | Persimmon (fruit) | <i>Ceratitis capitata</i> | CT T107-a. |
| | Bean (pod or shelled) | <i>Cydia fabivora</i> , <i>Epinotia aporema</i> , <i>Maruca testulalis</i> , and leafminers. | MB T101-k-2. |
| | Okra (pod) | <i>Pectinophora gossypiella</i> | MB T101-p-2. |
| | Horseradish (to Hawaii) | <i>Baris lepidii</i> | MB T101-l-2. |
| | Grape | <i>Lobesia botrana</i> | MB T101-h-2. |
| | | <i>Ceratitis capitata</i> | CT T107-a or MB T101-h-2-1. |
| | | <i>Ceratitis capitata</i> , <i>Lobesia botrana</i> . | MB T101-h-2-1. |
| Syrian Arab Republic | Horseradish (to Hawaii) | <i>Bactrocera cucurbitae</i> , <i>B. dorsalis</i> , <i>B. tryoni</i> , <i>Brevipalpus chilensis</i> , <i>Ceratitis capitata</i> , <i>Lobesia botrana</i> . | MB&CT T108-a-1 or T108-a-2 or T108-a-3. |
| | Ethrog | <i>Baris lepidii</i> | MB T101-l-2. |
| | | <i>Ceratitis capitata</i> | CT T107-a. |
| | | <i>Bactrocera cucurbitae</i> , <i>B. dorsalis</i> , <i>B. tryoni</i> , <i>Brevipalpus chilensis</i> , <i>Ceratitis capitata</i> , <i>Lobesia botrana</i> . | MB&T T108-a-1 or T108-a-2 or T108-a-3. |
| | Grape | <i>Lobesia botrana</i> | MB T101-h-2. |
| | | <i>Ceratitis capitata</i> | CT T107-a or MB T101-h-2-1. |
| | | <i>Ceratitis capitata</i> , <i>Lobesia botrana</i> . | MB T101-h-2-1. |
| | | <i>Bactrocera cucurbitae</i> , <i>B. dorsalis</i> , <i>B. tryoni</i> , <i>Brevipalpus chilensis</i> , <i>Ceratitis capitata</i> , <i>Lobesia botrana</i> . | MB&CT 108-a-1 or T108-a-2 or T108-a-3. |
| Taiwan | Carambola | <i>Bactrocera cucurbitae</i> , <i>B. dorsalis</i> , <i>Eutetraphyphus orientalis</i> . | CT T107-f. |
| | Horseradish (to Hawaii) | <i>Baris lepidii</i> | MB T101-l-2. |
| | Litchi (including clusters of fruit attached to a stem). | <i>Bactrocera dorsalis</i> , <i>B. cucurbitae</i> , <i>Conopomorpha sinensis</i> . | CT T107-h. |
| Tajikistan | Mango | <i>Bactrocera dorsalis</i> | VH T106-d. |
| | Horseradish | <i>Baris lepidii</i> | MB T101-l-2. |
| | Grape | <i>Lobesia botrana</i> | MB T101-h-2. |
| | | <i>Ceratitis capitata</i> | CT T107-a or MB T101-h-2-1. |
| | | <i>Ceratitis capitata</i> , <i>Lobesia botrana</i> . | MB T101-h-2-1. |
| | | <i>Bactrocera cucurbitae</i> , <i>B. dorsalis</i> , <i>B. tryoni</i> , <i>Brevipalpus chilensis</i> , <i>Ceratitis capitata</i> , <i>Lobesia botrana</i> . | MB&CT 108-a-1 or T108-a-2 or T108-a-3. |
| Thailand | Asparagus (shoot) | <i>Scirtothrips dorsalis</i> | MB T101-b-1-1. |
| Trinidad and Tobago | Bean (shelled), pigeon pea (shelled). | <i>Cydia fabivora</i> , <i>Epinotia aporema</i> , <i>Maruca testulalis</i> , and leafminers. | MB T101-k-2. |
| | Grapefruit, orange, tangerine | Species of <i>Anastrepha</i> (other than <i>Anastrepha ludens</i>). | CT T107-c. |
| Tunisia | Okra, roselle | <i>Pectinophora gossypiella</i> | MB T101-p-2. |
| | Ethrog | <i>Ceratitis capitata</i> | CT T107-a. |
| | | <i>Bactrocera cucurbitae</i> , <i>B. dorsalis</i> , <i>B. tryoni</i> , <i>Brevipalpus chilensis</i> , <i>Ceratitis capitata</i> , <i>Lobesia botrana</i> . | MB&CT T108-a-1 or T108-a-2 or T108-a-3. |
| | Grape | <i>Lobesia botrana</i> | MB T101-h-2. |
| | | <i>Ceratitis capitata</i> | CT T107-a or MB T101-h-2-1. |

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| Location | Commodity | Pest | Treatment schedule |
|---|--|---|---|
| Turkey | Grapefruit, orange, tangerine Peach, pear, plum | <i>Ceratitis capitata</i> , <i>Lobesia botrana</i> . <i>Bactrocera cucurbitae</i> , <i>B. dorsalis</i> , <i>B. tryoni</i> , <i>Brevipalpus chilensis</i> , <i>Ceratitis capitata</i> , <i>Lobesia botrana</i> . <i>Ceratitis capitata</i> | MB T101-h-2-1. MB&CT T108-a-1 or T108-a-2 or T108-a-3. |
| Turkey | Ethrog | <i>Ceratitis capitata</i> | CT T107-a. CT T107-a. |
| Turkey | Grape | <i>Bactrocera cucurbitae</i> , <i>B. dorsalis</i> , <i>B. tryoni</i> , <i>Brevipalpus chilensis</i> , <i>Ceratitis capitata</i> , <i>Lobesia botrana</i> . <i>Lobesia botrana</i> | MB&CT T108-a-1 or T108-a-2 or T108-a-3. |
| Turkmenistan | Orange | <i>Ceratitis capitata</i> | CT T107-a. |
| Turkmenistan | Grape | <i>Bactrocera cucurbitae</i> , <i>B. dorsalis</i> , <i>B. tryoni</i> , <i>Brevipalpus chilensis</i> , <i>Ceratitis capitata</i> , <i>Lobesia botrana</i> . <i>Ceratitis capitata</i> | MB T101-h-2. CT T107-a or MB T101-h-2-1. MB T101-h-2-1. |
| Ukraine | Horseradish | <i>Ceratitis capitata</i> , <i>Lobesia botrana</i> . <i>Bactrocera cucurbitae</i> , <i>B. dorsalis</i> , <i>B. tryoni</i> , <i>Brevipalpus chilensis</i> , <i>Ceratitis capitata</i> , <i>Lobesia botrana</i> . | MB&CT T108-a-1 or T108-a-2 or T108-a-3. |
| Ukraine | Grape | <i>Baris lepidii</i> | CT T107-a or MB T101-h-2-1. MB T101-h-2-1. |
| United Kingdom (includes Channel Islands, Shetland Island). | Horseradish | <i>Ceratitis capitata</i> , <i>Lobesia botrana</i> . | MB T101-1-2. |
| United Kingdom (includes Channel Islands, Shetland Island). | Horseradish (to Hawaii) | <i>Baris lepidii</i> | MB T101-1-2. |
| Uruguay | Apple, nectarine, peach pear, plum. | Species of <i>Anastrepha</i> (other than <i>Anastrepha ludens</i>), <i>Ceratitis capitata</i> . | CT T107-a-1. |
| Uzbekistan | Grape | <i>Lobesia botrana</i> | MB T101-h-2. |
| Venezuela | Horseradish | <i>Ceratitis capitata</i> | CT T107-a or MB T101-h-2-1. |
| Venezuela | Bean (pod or shelled), pigeon pea (pod or shelled). | <i>Ceratitis capitata</i> , <i>Lobesia botrana</i> . | MB T101-h-2-1. |
| Venezuela | Grape, grapefruit, orange, tangerine. | <i>Bactrocera cucurbitae</i> , <i>B. dorsalis</i> , <i>B. tryoni</i> , <i>Brevipalpus chilensis</i> , <i>Ceratitis capitata</i> , <i>Lobesia botrana</i> . <i>Baris lepidii</i> | MB&CT T108-a-1 or T108-a-2 or T108-a-3. |
| Venezuela | | <i>Cydia fabivora</i> , <i>Epinotia aporema</i> , <i>Maruca testulalis</i> . Species of <i>Anastrepha</i> (other than <i>Anastrepha ludens</i>), <i>Ceratitis capitata</i> . | MB T101-1-2. MB T101-k-2 or MB T101-k-2-1. CT T107-a-1. |

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| Location | Commodity | Pest | Treatment schedule |
|----------------|----------------------------------|--|--------------------|
| Zimbabwe | Mango | <i>Ceratitis capitata</i> , <i>Anastrepha</i> spp., <i>Anastrepha ludens</i> . | HWD T102-a. |
| | Okra | <i>Pectinophora gossypiella</i> | MB T101-p-2. |
| | Apple, kiwi, pear | <i>Ceratitis capitata</i> | CT T107-a. |
| | Apricot, nectarine, peach, plum. | <i>Cryptophlebia leucotreta</i> and <i>Pterandrus rosa</i> . | CT T107-e. |

(ii) *Treatment for shipments from U.S. quarantine localities.*

| Location | Commodity | Pest | Treatment schedule |
|--|--|---|---|
| Areas in the United States under Federal quarantine for the listed pest. | Fruit of the genera Citrus and <i>Fortunella</i> and of the species <i>Clausena lansium</i> and <i>Poncirus trifoliata</i> . | <i>Xanthomonas axonopodis</i> pv. <i>citri</i> . | CMisc. CC1 or CMisc. CC2. |
| | Any fruit listed in § 301.64–2(a) of this chapter. | <i>Anastrepha ludens</i> | IR. |
| | Any article listed in § 301.78–2(a) of this chapter. | <i>Ceratitis capitata</i> | IR. |
| | Apple | <i>Anastrepha ludens</i> | CT T107-b. |
| | | <i>Anastrepha</i> spp. (other than <i>A. ludens</i>) | CT T107-a-1 or CT T107-c. |
| | | <i>Bactrocera cucurbitae</i> , <i>B. dorsalis</i> , <i>Ceratitis capitata</i> . | MB&CT T108-a-1 or T108-a-2 or T108-a-3. |
| | | <i>Ceratitis capitata</i> | CT T107-a or MB&CT T108-b. |
| | Apricot | <i>Anastrepha ludens</i> | CT T107-b. |
| | | <i>Bactrocera dorsalis</i> , <i>Ceratitis capitata</i> . | MB&CT T108-a-1 or T108-a-2 or T108-a-3. |
| | | <i>Ceratitis capitata</i> | CT T107-a. |
| | Avocado | <i>Bactrocera cucurbitae</i> , <i>B. dorsalis</i> , <i>Ceratitis capitata</i> . | MB&CT T108-a-1 or T108-a-2 or T108-a-3. |
| | Bay leaves | <i>Phytophthora ramorum</i> | VCH T111-a-1 |
| | Bell pepper | <i>Bactrocera cucurbitae</i> , <i>B. dorsalis</i> , <i>Ceratitis capitata</i> . | VH T106-b-1. |
| | Cherry | <i>Bactrocera dorsalis</i> , <i>Ceratitis capitata</i> . | MB&CT T108-a-1 or T108-a-2 or T108-a-3. |
| | Citrons | <i>Ceratitis capitata</i> | CT T107-a. |
| | Citrus | <i>Anastrepha ludens</i> | CT T107-b. |
| | | <i>Anastrepha</i> spp. (other than <i>A. ludens</i>) | CT T107-a-1, CT T107-c. |
| | | <i>Bactrocera dorsalis</i> | MB&CTOFF or CT&MBOFF. |
| | | <i>Ceratitis capitata</i> | CT T107-a or MB T101-w-1-2. |
| | Citrus fruit regulated under § 301.78-2(a) of this chapter. | <i>Ceratitis capitata</i> | MB&CTMedfly or CTMedfly. |
| | Citrus fruit regulated under § 301.99-2(b) of this chapter. | <i>Anastrepha serpentina</i> | MBSFF. |
| Eggplant | | | |
| | | <i>Bactrocera cucurbitae</i> , <i>Ceratitis capitata</i> . | VH T106-b-2. |
| | Grape | <i>Bactrocera cucurbitae</i> , <i>B. dorsalis</i> , <i>Ceratitis capitata</i> . | CT T107-f or MB&CT T108-a-1 or T108-a-2 or T108-a-3. |
| | | <i>Bactrocera dorsalis</i> | MB&CTOFF or CT&MBOFF. |
| | | <i>Ceratitis capitata</i> | MB T101-h-2-1 or CT T107-a or MB&CT T108-b. |
| | Grapefruit | <i>Anastrepha ludens</i> | CT T107-b or MB T101-j-2-1 or FHA T103-a-1. |
| | | <i>Ceratitis capitata</i> | CT T107-a. |
| | Kiwi | <i>Ceratitis capitata</i> | CT T107-a or MB T101-m-2-1 or MB&CT T108-a-1 or T108-a-2 or T108-a-3. |
| | Litchi | <i>Anastrepha ludens</i> | CT T107-b. |
| | Longan | <i>Anastrepha ludens</i> | CT T107-b. |
| | | <i>Bactrocera dorsalis</i> | CT T107-h. |
| | Loquat | <i>Ceratitis capitata</i> | CT T107-a. |

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|--------------|--|---|---|
| Hawaii | Nectarine | <i>Bactrocera dorsalis</i> | MB&CT T108-a-1 or T108-a-2 or T108-a-3. |
| | | <i>Ceratitis capitata</i> | CT T107-a or CT T107-c or MB&CT T108-a-1 or T108-a-2 or T108-a-3. |
| | Okra | <i>Pectinophora gossypiella</i> | MB T101-p-2. |
| | Orange | <i>Anastrepha ludens</i> | CT T107-b MB T101-j-2-1 or FHA T103-a-1. |
| | Optunia cactus (Optunia spp.) | <i>Ceratitis capitata</i> | CT T107-a or CT T107-c. |
| | Papaya | <i>Ceratitis capitata</i> | MB T101-d-3. |
| | Peach | <i>Bactrocera cucurbitae, B. dorsalis, Ceratitis capitata</i> . <i>Anastrepha ludens</i> | VH T106-c VH T106-b-4 or. |
| | | <i>Anastrepha</i> spp. (other than <i>A. ludens</i>). <i>Bactrocera cucurbitae, B. dorsalis, Ceratitis capitata</i> . | CT T107-b. CT T107-a-1. |
| | Pear | <i>Ceratitis capitata</i> | MB&CT T108-a-1 or T108-a-2 or T108-a-3. |
| | | <i>Anastrepha ludens</i> | CT T107-a or T107-c. |
| | | <i>Anastrepha</i> spp. (other than <i>A. ludens</i>). <i>Bactrocera cucurbitae, B. dorsalis, Ceratitis capitata</i> . | CT T107-b. CT T107-a-1. |
| | Pepper, bell | <i>Ceratitis capitata</i> | MB&CT T108-a-1 or T108-a-2 or T108-a-3. |
| | Persimmons | <i>Bactrocera dorsalis, Ceratitis capitata</i> . <i>Anastrepha ludens</i> | CT T107-b. VH T106-b-5. |
| | Pineapple (other than smooth Cayenne). | <i>Bactrocera cucurbitae, B. dorsalis, Ceratitis capitata</i> . | |
| | Plum | <i>Anastrepha ludens</i> | CT T107-b. |
| | | <i>Bactrocera dorsalis</i> | MB&CT T108-a-1 or T108-a-2 or T108-a-3. |
| | | <i>Ceratitis capitata</i> | CT T107-a or CT T107-c or MB&CT T108-a-1 or T108-a-2 or T108-a-3. |
| | Pomegranate | <i>Anastrepha ludens</i> | CT T107-b. |
| | | <i>Ceratitis capitata</i> | CT T107-a or CT T107-c. |
| | Pummelo | <i>Ceratitis capitata</i> | CT T107-a. |
| | Quince | <i>Anastrepha ludens</i> | CT T107-b. |
| | | <i>Anastrepha</i> spp. (other than <i>A. ludens</i>). <i>Bactrocera dorsalis</i> | CT T107-a-1. |
| | Squash | <i>Ceratitis capitata</i> | MB&CT T108-a-1 or T108-a-2 or T108-a-3. |
| | | <i>Bactrocera cucurbitae, B. dorsalis</i> . | CT T107-b. |
| | Tomato | <i>Bactrocera cucurbitae, B. dorsalis, Ceratitis capitata</i> . <i>Bactrocera dorsalis</i> | VH T106-b-6. |
| | | <i>Ceratitis capitata</i> | MBOFF. |
| | White sapote | <i>Bactrocera dorsalis</i> | MB T101-c-3. |
| | Abiu | <i>Anastrepha ludens</i> | CT T107-b. |
| | | <i>Bactrocera cucurbitae, B. dorsalis, Ceratitis capitata</i> . | IR. |
| | Atemoya | <i>Bactrocera cucurbitae, B. dorsalis, Ceratitis capitata</i> . | IR. |
| | Avocado | <i>Bactrocera cucurbitae, B. dorsalis, Ceratitis capitata</i> . <i>Ceratitis capitata</i> | MB T101-c-1. |
| | | <i>Bactrocera cucurbitae, B. dorsalis, B. tryoni, Ceratitis capitata, Brevipalpus chilensis, and Lobesia botrana</i> . | CT T107-a. |
| | Banana | <i>Bactrocera cucurbitae, Bactrocera dorsalis, Ceratitis capitata, Coccus viridis</i> . | CT T108-a-1 or T108-a-2 or T108-a-3. |
| | Bell pepper | <i>Bactrocera cucurbitae, B. dorsalis, Ceratitis capitata</i> . | IR or VH T106-b-1. |
| | Carambola | <i>Bactrocera cucurbitae, B. dorsalis, Ceratitis capitata</i> . | IR. |
| | Citrus | <i>Bactrocera cucurbitae, B. dorsalis, Ceratitis capitata</i> . | FHA T103-b-1. |

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| Location | Commodity | Pest | Treatment schedule |
|----------------------|---|---|---|
| Puerto Rico | Eggplant | <i>Bactrocera cucurbitae</i> , <i>B. dorsalis</i> , <i>Ceratitis capitata</i> . | IR or VH T106-b-2. |
| | Litchi | <i>Bactrocera or dorsalis</i> , <i>Ceratitis capitata</i> . | HWI T102-d or VH T106-f. |
| | Longan | <i>Bactrocera cucurbitae</i> , <i>B. dorsalis</i> , <i>Ceratitis capitata</i> . | IR. |
| | Mango | <i>Bactrocera dorsalis</i> , <i>Ceratitis capitata</i> . | HWI T102-d-1. |
| | Papaya | <i>Bactrocera cucurbitae</i> , <i>B. dorsalis</i> , <i>Ceratitis capitata</i> . | IR. |
| | Pineapple (other than smooth Cayenne). | <i>Bactrocera cucurbitae</i> , <i>B. dorsalis</i> , <i>Ceratitis capitata</i> . | VH T106-b-4 or VH T106-c or FHA T103-d-2 or IR. |
| | Rambutan | <i>Bactrocera cucurbitae</i> , <i>B. dorsalis</i> , <i>Ceratitis capitata</i> . | IR or VH T106-b-5. |
| | Sapodilla | <i>Bactrocera cucurbitae</i> , <i>B. dorsalis</i> , <i>Ceratitis capitata</i> . | FHA T103-e or VH T106-g. |
| | Squash, Italian | <i>Bactrocera cucurbitae</i> , <i>B. dorsalis</i> , <i>Ceratitis capitata</i> . | IR. |
| | Sweetpotato | <i>Euscepes postfasciatus</i> , <i>Omphisa anastomosalis</i> , <i>Elytrotreinus</i> or <i>subtruncatus</i> . | MB T101-b-3-1 or § 305.24(k) or IR. |
| | Tomato | <i>Ceratitis capitata</i> | VH T106-b-5 or MB T101-c-3. IR or VH T106-b-7. |
| | Beans (string, lima, faba) and pigeon peas (fresh shelled or in the pod). | <i>Bactrocera cucurbitae</i> , <i>B. dorsalis</i> , <i>Ceratitis capitata</i> . | MB T101-k-2 or MB T101-k-2-1. |
| | Citrus fruits (orange, grapefruit, lemon, citron, and lime). | <i>Cydia fabivora</i> , <i>Epinotia aporema</i> , <i>Maruca testulalis</i> , <i>Melanagromyzza obtusa</i> , and leafminers. | CT T107-c. |
| | Mango | <i>Anastrepha spp.</i> , <i>Ceratitis capitata</i> . | HWD T102-a. |
| Virgin Islands | Okra (pod) | <i>Pectinophora gossypiella</i> | MB T101-p-2. |
| | Sweet potato | External and internal feeders | MB T101-b-3-1. |
| | Pigeon pea (pod or shelled) | <i>Cydia fabivora</i> , <i>Epinotia aporema</i> , <i>Maruca testulalis</i> , and leafminers. | MB T101-k-2. |
| | Beans (string, lima, faba) and pigeon peas, in the pod. | <i>Cydia fabivora</i> , <i>Epinotia aporema</i> , <i>Maruca testulalis</i> , and leafminers. | MB T101-k-2 or MB T101-k-2-1. |
| | Citrus fruits (orange, grapefruit, lemon, citron, and lime). | <i>Anastrepha obliqua</i> | CT T107-c. |
| | Mango | <i>Anastrepha spp.</i> , <i>Ceratitis capitata</i> . | HWD T102-a. |
| | Okra (pod) | <i>Pectinophora gossypiella</i> | MB T101-p-2. |
| | Sweet potato | External and internal feeders | MB T101-b-3-1. |

(i) *Garbage*. For treatment of garbage, see § 305.33.

(j) *Grains and seeds not intended for propagation*. The treatment schedules for which administration instructions

are not provided are in § 305.6 for methyl bromide (MB) fumigation, § 305.23 for steam sterilization (SS), and § 305.25 for dry heat (DH).

| Plant material | Pest | Treatment schedule |
|-------------------------------------|--|---------------------------------|
| Acorns | <i>Cydia splendana</i> and <i>Curculio</i> spp | MB T302-g-1 or MB T302-g-2. |
| Corn seed (commercial lots) | Various corn-related diseases | SS T510-1. |
| Ear corn | Borers | MB T302-a-1-1 or DH T302-a-1-2. |
| Grains and seeds (guar "gum") | <i>Trogoderma granarium</i> | MB T302-c-1 or MB T302-c-3. |
| Grains and seeds | <i>Trogoderma granarium</i> | MB T302-c-2. |

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|---|--|--|
| Grains and seeds contaminated with cotton seed. | <i>Pectinophora</i> spp | MB T301-a-1-1 or MB T301-a-1-2. |
| Grains and seeds | Insects other than <i>Trogoderma granarium</i> . | MB T302-e-1 or MB T302-e-2. |
| Grains and seeds excluding <i>Rosmarinus</i> seed. | Snails | T302-f: Remove snails through separation by screening or hand removal. If not feasible, an inspector will deny entry or treat with appropriate schedule (See miscellaneous cargo in paragraph (m) of this section.). |
| Shelled corn contaminated with cotton-seed. (Do not use shelled corn treated with T301 for food or feed). | <i>Pectinophora</i> spp | MB T302-b-1-2 (See MB T301-a-1-1 or MB T301-a-1-2.). |

(k) *Hay, baled.* For treatment of baled hay for *Mayetiola destructor*, see the phosphine treatment schedule T311 in § 305.7.

(l) *Khapra beetle.* (1) For the heat treatment of feeds and milled products that are heated as a part of the processing procedure, or for other commodities that can be subjected to heat, and that are infested with khapra beetle, see treatment schedule T307-a in § 305.26.

(2) See treatment schedule T306-c-1 in § 305.6 for finely ground oily meals and flour.

(3) See also specific articles where the pest is *Trogoderma granarium* (khapra beetle).

(4) See treatment schedule T302-g-1 in § 305.6 for sorptive materials.

(m) *Miscellaneous (nonfood, nonfeed commodities or articles).* The treatment schedules for which administration instructions are not provided are in § 305.6 for methyl bromide (MB) fumigation, § 305.8 for sulfuryl fluoride, § 305.16 for cold treatment (CT), and § 305.23 for steam sterilization (SS).

| Material | Pest | Treatment schedule |
|---|---|---|
| Brassware from Bombay (Mumbai), India | <i>Trogoderma granarium</i> | MB T413-a or MB T413-b. |
| Inanimate, nonfood articles | Gypsy moth egg masses | MB T414. |
| Miscellaneous cargo (nonfood, nonfeed commodities). | Quarantine significant snails of the family Achatinidae, including <i>Achatina</i> , <i>Archachatina</i> , <i>Lignus</i> , <i>Limicolaria</i> . Quarantine significant snails of the family Hygromiidae, including the following genera: <i>Canidula</i> , <i>Cernuella</i> , <i>Cochlicella</i> , <i>Helicella</i> , <i>Helicopsis</i> , <i>Monacha</i> , <i>Platytheba</i> , <i>Pseudotrichia</i> , <i>Trochoidae</i> , <i>Xerolenta</i> , <i>Xeropicta</i> , <i>Xerosecta</i> , <i>Xerotricha</i> . Quarantine significant slugs of the families Agriolimacidae, Arionidae, Limacidae, Milacidae, Philomycidae, Veronicellidae, including the following genera: <i>Agricolimax</i> , <i>Arion</i> , <i>Colosius</i> , <i>Deroceras</i> , <i>Diplosolenodes</i> , <i>Leidyula</i> , <i>Limax</i> , <i>Meghimatum</i> , <i>Milax</i> , <i>Pallifera</i> , <i>Pseudoveronicella</i> , <i>Sarasinula</i> , <i>Semperula</i> , <i>Vaginulus</i> , <i>Veronicella</i> . Quarantine significant snails of the family Helicidae, including the following genera: <i>Caracolla</i> , <i>Cepaea</i> , <i>Cryptomphalus</i> , <i>Helix</i> , <i>Otala</i> , <i>Theba</i> . Quarantine significant snails of the families Bradybaenidae and Succineidae, including the following genera: <i>Bradybaena</i> , <i>Cathaica</i> , <i>Helicostyla</i> , <i>Omaloynyx</i> , <i>Succinea</i> , <i>Trischoplita</i> . | MB T402-a-1 or CT T403-a-6-3. MB T403-a-2-1 or MB T403-a-2-2 or CT T403-a-2-3. MB T403-a-3. |
| | | MB T403-a-4-1 or MB T403-a-4-2 or CT T403-a-4-3. |
| | | MB T403-a-5-1 or MB T403-a-5-2, or CT T403-a-5-3. |

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|--|--|---|
| | Quarantine significant snails sensitive to cold treatment. Members of the families Bradybaenidae, Helicidae, Helicellidae, Hygromiidae, and Succineidae, including the following genera: <i>Bradybaena</i> , <i>Candidula</i> , <i>Cepaea</i> , <i>Cathaica</i> , <i>Cernuella</i> , <i>Cochlicella</i> , <i>Helicella</i> , <i>Helicostyla</i> , <i>Theba</i> , <i>Trischoplita</i> , <i>Trochidea</i> , <i>Xerolenta</i> , <i>Xeropicta</i> , <i>Xerosecta</i> , <i>Xerotricha</i> . Quarantine significant snails sensitive to cold treatment, certain members of the family Helicidae, including the genera <i>Helix</i> and <i>Otala</i> . Quarantine significant snails sensitive to cold treatment of the family Achatinidae, including the genera <i>Achatina</i> , <i>Archachatina</i> , <i>Lignus</i> , <i>Limicolaria</i> . <i>Globodera rostochiensis</i> <i>Trogoderma granarium</i> Wood borers or termites <i>Pieris</i> spp. (all life stages of cabbageworms) and all other Lepidoptera, hitchhiking insects, including other than Lepidoptera. Quarantine significant insects not specifically provided for elsewhere in nonfood or nonfeed commodities. Quarantine significant pests other than insects (including snails of the families Helicarionidae, Streptacidae, Subulinidae, and Zonitidae, as well as other noninsect pests). Ticks | CT T403-a-6-1. CT T403-a-6-2. CT T403-a-6-3. MB T403-c. MB T401-b or MB T402-b-2. See treatments for wood products in paragraph (y) of this section. MB T403-f. |
| Miscellaneous cargo (nonfood, nonfeed commodities) that is sorptive or difficult to penetrate. | | MB T403-e-1-1 or MB T403-e-1-2. |
| Miscellaneous cargo (nonfood, nonfeed commodity) that is not sorptive or difficult to penetrate. | | MB T403-e-2. |
| Nonfood materials | | MB T310-a or MB T310-b or sulfuryl fluoride T310-d. |
| Nonplant articles | Potato cyst nematode | MB T506-2-1 or SS T506-2-3. |
| Nonplant products | Ants | MB T411. |

(n) *Plants, bulbs, corms, tubers, rhizomes, and roots.* The treatment schedules for which administration instructions are not provided are in § 305.6 for methyl bromide (MB) fumigation, § 305.10 for combination (COM), and § 305.42(c) for miscellaneous (Misc.).

| Plant material | Pest | Treatment schedule |
|---|---|---|
| <i>Anchusa</i> , <i>Astilbe</i> , <i>Clematis</i> , <i>Dicentra</i> , <i>Gardenia</i> , <i>Helleborus</i> , <i>Hibiscus</i> , <i>Kniphofia</i> , <i>Primula</i> . | Lesion nematodes (<i>Pratylenchus</i> spp.) .. | T553-2: Hot water dip at 118 °F for 30 minutes. |
| <i>Acalypha</i> | <i>Pratylenchus</i> spp | T570-1: Hot water dip at 110 °F for 50 minutes. T570-2: Hot water dip at 110 °F for 50 minutes. |
| <i>Aconitum</i> | <i>Aphelenchoïdes fragariae</i> spp | T552-1: Presoak bulbs in water at 75 °F for 2 hours, then at 110–111 °F for 4 hours. |
| <i>Allium</i> , <i>Amaryllis</i> , and bulbs | Bulb nematodes: <i>Ditylenchus dipsaci</i> , <i>D. destructor</i> . | T565-1: Hot water dip at 110 °F for 4 hours immediately after digging. T201-q: Hot water treatment at 112 °F for 10 minutes. (<i>Elodea</i> , <i>Danes</i> , and <i>Cabomba caroliniana</i> plants not tolerant to this treatment.) |
| <i>Amaryllis</i> | <i>Ditylenchus destructor</i> | T553-3: Hot water dip at 118 °F for 30 minutes. |
| Aquatic plants | Snails of the families: Ampullariidae, Bulinidae, Lymnaeidae, Planorbidae, Viviparidae. | T201-q: Hot water treatment at 112 °F for 10 minutes. (<i>Elodea</i> , <i>Danes</i> , and <i>Cabomba caroliniana</i> plants not tolerant to this treatment.) |
| <i>Armoracea</i> (horseradish roots), bulbs (not specifically provided for). | <i>Globodera rostochiensis</i> and <i>G. pallida</i> .. | T554-1: Presoak in water at 68 °F for 1 hour followed by hot water soak at 110 °F for 1 hour. Then dip in cold water and let dry. |
| <i>Astilbe</i> , <i>Bletilla hyacinthina</i> , <i>Cimicifuga</i> , <i>Epimedium pinnatum</i> , <i>Hosta</i> , <i>Paeonia</i> . | <i>Aphelenchoïdes besseyi</i> | |

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|--|--|---|
| Astilbe roots | <i>Brachyrhinus</i> larvae | MB T202-b. |
| Azalea | <i>Chrysomyxa</i> spp | T501-1: Remove infested parts and treat all plants of same species in shipment with 4-4-50 Bordeaux dip or spray. |
| Azalea hybrid | <i>Chrysomyxa</i> spp | T501-2: Remove infested parts and treat all plants of same species in shipment with 4-4-50 Bordeaux dip or spray; or T505-1-1: Treat with mancozeb or other approved fungicide of equal effectiveness according to the label. |
| Banana roots | External feeders | T202-c: Pretreatment at 110 °F for 30 minutes. Then, hot water dip at 120 °F for 60 minutes. |
| Begonia | <i>Aphelenchoides fragariae</i> | T559-1: Dip in hot water at 118 °F for 5 minutes. |
| Bletilla hyacinthina | <i>Aphelenchoides fragariae</i> | T553-4: Dip in hot water at 118 °F for 30 minutes. |
| Bromeliads | External feeders | MB T201-e-1. |
| | Internal feeders such as borers and miners. | MB T201-e-2. |
| | <i>Phyllosticta bromeliae</i> <i>Uredo</i> spp | T507-1: Remove infested leaves and treat all plants of same species in shipment with Captan following label directions. |
| Cacti and other succulents | External feeders (other than soft scales) infesting collected dormant and non-dormant plant material. | MB T201-f-1. |
| | Borers and soft scales | MB T201-f-2. |
| Calla (rhizomes) | <i>Meloidogyne</i> spp | T556-1: Dip in hot water at 122 °F for 30 minutes. |
| Camellia (light infestation) | <i>Cylindrosporium camelliae</i> | <i>Light infestation:</i> T509-1-1: Remove infested leaves and dip or spray plant with 4-4-50 Bordeaux. Dry quickly and thoroughly. <i>Heavy infestation:</i> An inspector will refuse entry. |
| Christmas tree | <i>Phoma chrysanthemi</i> | T501-5: Remove infested parts and treat all plants of same species in shipment with 4-4-50 Bordeaux dip or spray. |
| Chrysanthemum | <i>Phoma chrysanthemi</i> | T501-4: Remove infested parts and treat all plants of same species in shipment with 4-4-50 Bordeaux dip or spray. |
| Chrysanthemum rooted and unrooted cuttings | Aphids | MB T201-g-1. |
| | External feeders | COM T201-g-2. |
| | Leafminers, aphids, mites, etc. (<i>Chrysanthemum</i> spp. from Dominican Republic and Colombia when infested with Agromyzid leafminers requires no treatment unless destined to Florida.). | T201-g-3: Dip in hot water at 110-111 °F for 20 minutes. |
| Chrysanthemum (not including Pyrethrum). Commodities infested with | <i>Meloidogyne</i> spp. and <i>Pratylenchus</i> spp | T557-1: Dip in hot water at 118 °F for 25 minutes. |
| | Slugs of the families Agriolimacidae, Arionidae, Limacidae, Milacidae, Philomycidae, Veronicellidae, including the following genera: <i>Agriolimax</i> , <i>Arion</i> , <i>Cолосius</i> , <i>Deroberas</i> , <i>Diplosolenodes</i> , <i>Leidyula</i> , <i>Limax</i> , <i>Meghimatium</i> , <i>Milax</i> , <i>Pallifera</i> , <i>Pseudoveronicella</i> , <i>Sarasinula</i> , <i>Semperula</i> , <i>Vaginulus</i> , <i>Veronicella</i> . | MB T201-l. |
| Convallaria | <i>Globodera rostochiensis</i> and <i>G. pallida</i> | T551-1: Keep the pips frozen until time for treatment. Then thaw enough to separate bundles just before treatment begins. Without preliminary warmup, immerse in hot water at 118 °F for 30 minutes. |
| Crocus | <i>Aphelenchoides subtenuis</i> , <i>Ditylenchus destructor</i> . | T565-2: Hot water at 110 °F for 4 hours immediately after digging. |
| Cycads (except <i>Dioon edule</i>) | External feeders | MB T201-h-1. |
| Deciduous woody plants (dormant) | External feeders | MB T201-a-1. |
| | Gypsy moth egg masses | MB T313-a or MB T313-b. |
| | Mealybugs | MB T305-c. |

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|---|--|---|
| Deciduous woody plants (dormant), root cuttings, scion wood cuttings, and non-foliated citrus whitefly host: <i>Acer</i> , <i>Berberis</i> , <i>Fraxinus</i> , <i>Philadelphus</i> , <i>Rosa</i> , <i>Spiraea</i> , <i>Syringa</i> . | Borers, Citrus whitefly hosts | MB T201-a-2 or MB T201-k-1. |
| <i>Diospyros edulis</i> | External feeders | MB T201-h-2. |
| <i>Dieffenbachia</i> , <i>Dracaena</i> , <i>Philodendron</i> (plants and cuttings). | External feeders | MB T201-i-1. |
| Evergreens (<i>Azalea</i> , <i>Berberis</i> , <i>Camellia</i> , <i>Cedrus</i> , <i>Cupressus</i> , <i>Ilex</i> , <i>Juniperus</i> , <i>Photinia</i> , <i>Podocarpus</i> , <i>Thuja</i> , and <i>Taxus</i>). | Internal feeders | MB T201-i-2. |
| External feeders | External feeders | MB T201-b-1. |
| Exceptions: | | |
| <i>Araucaria</i> | External feeders | MB T201-c-1. |
| <i>Azalea indica</i> | External feeders | MB T201-c-2. |
| Cycads | External feeders | MB T201-l. |
| Hosts | <i>Dialeurodes citri</i> | MB T201-k-1. |
| <i>Daphne</i> | External feeders | MB T201-c-1. |
| <i>Lavandula</i> | External feeders | Misc. T201-p-1. |
| <i>Osmanthus americanus</i> | External feeders | COM T201-p-2. |
| <i>Pinus</i> (Canada to certain States) | External feeders | MB T201-j. |
| Peanuts | Gypsy moth egg masses | MB T313-a. |
| Foliated host plants of <i>Dialeurodes citri</i> , excluding <i>Osmanthus americanus</i> . | <i>Dialeurodes citri</i> | MB T201-k-1. |
| <i>Fragaria</i> (strawberry) | <i>Aphelenchoides fragariae</i> | T569-1: Hot water at 121 °F for 7 minutes. T558-1: Dip in hot water at 127 °F for 2 minutes. |
| Garlic (see § 319.37-6(c)) | <i>Brachycerus</i> spp. and <i>Dyspessa ulula</i> | MB T202-j. |
| <i>Gentiana</i> | <i>Septoria gentianae</i> | T507-2: Remove infested leaves and treat all plants of same species in shipment with Captan following label directions. |
| <i>Gladiolus</i> | <i>Taeniothrips simplex</i> | MB T202-e-1 or MB 202-e-2. |
| Greenhouse-grown plants, herbaceous plants and cuttings, greenwood cuttings of woody plants. | <i>Ditylenchus destructor</i> | T565-3: Hot water at 110 °F for 4 hours immediately after digging. MB T201-c-1. |
| Exceptions: | External feeders, leafminers, thrips | |
| <i>Bromeliads</i> | Borers and soft scales | MB T201-c-2. |
| Cacti and other succulents | External feeders | MB T201-e-3-1. |
| <i>Chrysanthemum</i> | External feeders | MB T201-j. |
| Cycads | External feeders | MB T201-g-1. |
| <i>Cyclamen</i> | External feeders | MB T201-1. |
| <i>Dieffenbachia</i> , <i>Dracaena</i> , and <i>Philodendron</i> . | Mites | MB T201-a-2. |
| <i>Kalanchoe synsepala</i> | External feeders | MB T201-i-1. |
| Plants infested with | Quarantine pests, excluding scale insects. | Misc. T201-p-1. |
| Horseradish roots from the countries of Armenia, Azerbaijan, Belarus, Bosnia, Herzegovina, Croatia, Czech Republic, Estonia, Georgia, Germany, Hungary, Italy, Kazakhstan, Kyrgyzstan, Latvia, Lithuania, Macedonia, Moldova, Poland, Russia, Serbia and Montenegro, Slovakia, Slovenia, Tajikistan, Turkmenistan, Ukraine, and Uzbekistan. | Quarantine pests | COM T201-p-2. |
| Host plants of <i>Aleurocanthus woglumi</i> | <i>Dialeurodes citri</i> | MB T201-k-2. |
| Plants infested with | Quarantine pests | Misc. T201-p-1. |
| Orchids | Quarantine pests | Misc. T201-p-1. |
| <i>Osmanthus americanus</i> | Quarantine pests | Misc. T201-p-1. |
| <i>Pelargonium</i> | Quarantine pests | Misc. T201-p-1. |
| <i>Sedum adolphi</i> | Quarantine pests | Misc. T201-p-1. |
| Plants infested with | <i>Succinea horticola</i> | T201-o-1: Use a high-pressure water spray on the foliage to flush snails from the plants. The run-off drain must be screened to catch snails before drainage into the sewer system. MB T201-1. MB T202-f. |
| | <i>Veronicella</i> or other slugs | |
| | External feeders | MB T201-n. |

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|---|--|---|
| Host plants of <i>Omalonyx unguis</i> and <i>Succinea</i> . | <i>Omalonyx unguis</i> and <i>Succinea</i> spp. (snails). | T201-o-1: Use a high-pressure water spray on the foliage to flush snails from the plants. The run-off drain must be screened to catch snails before drainage into the sewer system; or T201-o-2: Dip plants with solution prepared by adding 3 level tablespoons of 25 percent Malathion wettable powder and 6 level teaspoons of 50 percent carbaryl wetttable powder per gallon of water with a sticker-spreader formulation. |
| <i>Humulus</i> | <i>Heterodera humuli</i> | T553-5: Hot water at 118 °F for 30 minutes. |
| <i>Hyacinthus</i> (bulbs), <i>Iris</i> (bulbs and rhizomes), <i>Tigridia</i> . | <i>Ditylenchus dipsaci</i> and <i>D. destructor</i> | T554-1-1: Presoak in water at 70–80 °F for 2.5 hours followed by hot water immersion at 110–111 °F for 1 hour; or T554-1-2: Hot water immersion at 110–111 °F for 3 hours with no presoaking. |
| <i>Lilium</i> (bulbs) | <i>Aphelenchoides fragariae</i> | T566-3: Completely submerge in hot water at 102 °F. |
| Lily bulbs packed in subsoil | Internal feeders | MB T202-g. |
| <i>Lycoris</i> | <i>Taeniothrips eucharii</i> | MB T202-h. |
| <i>Muscaria</i> , <i>Ornithogalum</i> , <i>Polianthes</i> (tuberose). | <i>Ditylenchus dipsaci</i> | T567-1: Dip in hot water at 113 °F for 4 hours. |
| <i>Narcissus</i> | <i>Stenorarsonemus laticeps</i> | MB T202-i-1; or MB T202-i-2; or T202-i-3: Hot water at 110–111 °F for 1 hour after bulbs reach 110 °F pulp temperature. Apply hot water within 1 month after normal harvest as injury to flower bud may occur. |
| | <i>Ditylenchus dipsaci</i> | T555-1: Presoak in water at 70–80 °F for 2 hours; then at 110–111 °F until all bulbs reach that temperature and hold for 4 hours. |
| Nonfoliated host plants of <i>Dialeurodes citri</i> , excluding <i>Osmanthus americanus</i> . | <i>Dialeurodes citri</i> | MB T201-k-2. |
| Orchids | <i>Ascochyta</i> spp | T513-1: Defoliate if leaf-borne only; inspector will refuse entry if pseudo-bulbs infested. |
| | <i>Cercospora</i> spp | T501-3: Remove infested parts and treat all plants of same species in shipment with 4–4–50 Bordeaux dip or spray. |
| | | <i>Light infestation:</i> T509-2-1: Remove infested leaves and treat plant with 4–4–50 Bordeaux dip or spray. Dry quickly and thoroughly. <i>Heavy infestation:</i> An inspector will refuse entry. |
| Orchids, plants and cuttings (see MB T305-c for mealybugs). | External feeders (other than soft scales) | MB T201-d-1. |
| Orchids, plants and cuttings | External feeders (other than soft scales) infesting greenhouse grown plant material. | MB T201-d-2. |
| | Borers, cattleya fly, <i>Mordellistena</i> spp., soft scales, <i>Vinsonia</i> spp. | MB T201-d-3. |
| | <i>Cecidomyid</i> galls | T201-d-4: Excise all galls. |
| | Leaf miner, <i>Eurytoma</i> spp. infesting <i>Rhynchostylis</i> . | T201-d-5: Hot water dip at 118 °F for ½ hour followed by a cool water bath. |
| Orchids to Florida | Rusts | T508-1: An inspector will refuse entry of all infested plants and all other plants of the same species or variety in the shipment. Other orchid species in the shipment that may have become contaminated must be treated with Captan. Repackage treated orchids in clean shipping containers. |
| <i>Oryza</i> (paddy rice) | <i>Aphelenchoides fragariae</i> | T559-2: Dip in hot water at 132.8 °F for 15 minutes. |
| Pineapple slips | Various | MB T201-e-3-1 or MB T201-e-3-2. |

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| Plant material | Pest | Treatment schedule |
|---|--|---|
| Pines (<i>Pinus</i> spp.) from Canada and destined to California, Idaho, Oregon, or Utah. Precautionary treatment for pine trees and twigs and branches of all <i>Pinus</i> spp., except that Christmas trees and other pine decorative materials are exempt from treatment from November 1–December 31. | <i>Rhyacionia buoliana</i> | MB T201-j. |
| Plant cuttings: | | |
| Scion wood | External feeders | MB T201-m-1. |
| Greenwood cuttings of woody plants and herbaceous plant cuttings. | External feeders | MB T201-m-2. |
| Root cuttings | External feeders | MB T201-m- or MB T201-m-4. |
| Exceptions to plant cuttings: | | |
| Avocado | External feeders | COM T201-p-1. |
| <i>Chrysanthemum</i> | External feeders | MB T201-g-1. |
| <i>Dieffenbachia</i> | External feeders | MB T201-i-1. |
| <i>Dracaena</i> | External feeders | MB T201-i-2. |
| <i>Lavandula</i> | External feeders | COM T201-p-1. |
| Orchids | External feeders | MB T201-k-2. |
| <i>Philodendron</i> | External feeders | MB T201-i-1. |
| Plant material not tolerant to fumigation .. | Actionable pests | COM T201-p-1. |
| <i>Rhododendron</i> | <i>Chrysomyxa</i> spp. | T501-6: Remove infested parts and treat all plants of same species in shipment with 4–4–50 Bordeaux dip or spray; or T505–2–1: Treat with mancozeb or other approved fungicide of equal effectiveness according to the label instructions. T560–1: Dip in hot water at 123 °F for 10 minutes. MB T202-a-1 or MB T202-a-2. MB T202-a-3. |
| <i>Rosa</i> (except multiflora) | <i>Meloidogyne</i> spp. | T568–1: Treat with hot water at 110 °F for 1 hour. T565–4: Hot water at 110 °F for 4 hours immediately after digging. T565–5: Hot water at 110 °F for 4 hours immediately after digging. T553–1: Hot water at 118 °F for 30 minutes. |
| <i>Selaginella</i> | External feeders | MB T202-d. |
| <i>Senecio</i> (Lingularis) | Internal feeders | |
| <i>Scilla</i> | <i>Ditylenchus dipsaci</i> | |
| <i>Solanum</i> (potato tubers) | <i>Globodera rostochiensis</i> , <i>G. pallida</i> | |
| Various plant commodities | <i>Meloidogyne</i> spp. | |
| Yams and sweet potatoes | | |

(o) *Railroad cars (empty)*. The treatment schedules for which administration instructions are not provided are

in § 305.6 for methyl bromide (MB) fumigation.

| Pest | Treatment schedule |
|---------------------------------------|---|
| <i>Globodera rostochiensis</i> | T406-c, steam cleaning: Steam at high pressure until all soil is removed. Treated surfaces must be thoroughly wet and heated. |
| <i>Pectinophora gossypiella</i> | MB T401-a. |
| <i>Trogoderma granarium</i> | MB T401-b. |
| Nematode cysts | T401-c, high pressure steam cleaning; or formaldehyde wetting spray (one part 40 percent commercial formalin to 9 parts water). |

(p) *Rice straw and hulls*. The treatment schedules for which administration instructions are not provided are

in § 305.25 for dry heat (DH), § 305.6 for methyl bromide (MB) fumigation, and § 305.23 for steam sterilization (SS).

| Plant material | Pest | Treatment schedule |
|-------------------------------------|--|--|
| Articles made with rice straw | Fungal diseases of rice or internal feeders. | DH T303-d-1 or SS T303-b-1 or SS T303-d-2. |

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| Plant material | Pest | Treatment schedule |
|--|-------------------------------------|---------------------------------|
| Articles made with rice straw for indoor use only. | Internal feeders | MB T303-d-2-2 or MB T303-d-2-3. |
| Brooms made of rice straw | Various rice-related diseases | DH T518-1. |
| Closely packed rice straw and hulls | Various rice-related diseases | SS T519-1. |
| Loose rice straw and hulls | Various rice-related diseases | SS T519-2. |
| Novelties made of rice straw | Various rice-related-diseases | DH T518-2-1 or SS T518-2-2. |
| Rice straw and hulls imported for purposes other than approved processing. | Fungal diseases of rice | SS T303-b-1 or SS T303-b-2. |
| Rice straw and hulls imported in small lots of 25 pounds or less. | Fungal diseases of rice | DH T303-c-1. |

(q) *Seeds.* The treatment schedules for which numbers are specified and administration instructions are not provided are in § 305.10 for combination (COM) treatments, § 305.25 for dry heat (DH), § 305.6 for methyl bromide (MB) fumigation, § 305.7 for phosphine (PH), and § 305.24 for vapor heat (VH).

(1) Seeds other than noxious weed seeds.

| Type of seeds | Pest | Treatment schedule |
|---|--|--|
| Alfalfa (<i>Medicago sativa</i>) from Europe | <i>Verticillium albo-atrum</i> | T520-1-1: Dust with 75 percent Thiram at the rate of 166 grams per 50 kilograms of seed (3.3g/kg); or T520-1-2: Treat with a slurry of Thiram 75 WP at a rate of 166 grams per 360 milliliters of water per 50 kilograms of seed (3.3 g pesticide/7.2 ml water/kg seed). MB T203-m. |
| Avocado (no pulp) | <i>Conotrachelus</i> spp., <i>Heilipus lauri</i> , <i>Caulophilus latinasus</i> , <i>Copturus aguacatae</i> , <i>Stenoma catenifer</i> . | MB T203-o-l. |
| <i>Casuarina</i> | <i>Boatanomyia</i> spp. | MB T203-e. |
| Chestnut and acorn | Internal feeders | COM T203-p; or for seed from regions where citrus canker occurs, COM T511-1. |
| Citrus (Rutaceae family) | Citrus canker | MB T203-i-1. |
| Conifer (species with small seeds, such as <i>Picea</i> spp., <i>Pinus sylvestris</i> , and <i>Pinus mugo</i>). Conifer (species with small seeds, such as <i>Picea</i> spp., <i>Pinus sylvestris</i> , and <i>Pinus mugo</i> and nutlike seeds or tightly packed seeds so as to make fumigant penetration questionable). | External feeders | MB T203-i-2. |
| Corn (small lots for propagation but not for food, feed, or oil purposes). | Internal feeders | T510-2: Treat seeds with a dry application of Mancozeb in combination with Captan. Disinfect small bags containing corn (bags weighing 60 pounds or less) only with: (1) Dry heat at 212 °F for 1 hour; or (2) steam at 10 pounds pressure at a minimum of 240 °F for 20 minutes. Note: Bags with plastic liners must be opened prior to treatment. MB T203-f-1 or MB T203-f-2 or MB T203-f-3 or PH T203-f-4. |
| Cottonseed (bagged, packaged, or bulk) | External feeders | MB T203-j. |
| <i>Hevea brasiliensis</i> | Seed boring insects | MB T203-g-1 or MB T203-g-2 or PH T203-g-3. |
| Pods and seeds of kenaf, hibiscus, and okra. | Internal feeders | MB T203-o-3. |
| Leguminosae=Fabaceae | <i>Bruchophagus</i> spp. and <i>Eurytoma</i> spp. | MB T203-c or MB T203-a-2. |
| <i>Lonicera</i> and other seeds | <i>Caryedon</i> spp. | MB T203-o-4-1 or MB T203-o-4-2. |
| <i>Macadamia</i> nut | <i>Caryedon</i> spp. (in or with, etc.) | MB T203-o-5. |
| <i>Rosmarinus</i> | <i>Rhagoletis cerasi</i> pupae (Diptera: Tephritidae). | MB T203-k. |
| <i>Umbelliferae</i> | <i>Cryptophlebia illepida</i> | MB T203-h. |
| <i>Vicia</i> spp., excluding seeds of <i>Vicia faba</i> | Juvenile <i>Helicella</i> spp. (snails) or internal feeders. | MB T203-o-2. |
| <i>Vicia</i> spp., including seeds of <i>Vicia faba</i> | <i>Systole</i> spp. | MB T203-d-1. |
| Seeds | Bruchidae | MB T203-d-2. |
| | Bruchidae | MB T203-l. |
| | <i>Trogoderma granarium</i> | |

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| Type of seeds | Pest | Treatment schedule |
|---|--|---|
| Seeds (excluding seeds of <i>Vicia</i> spp.) | Bruchidae excluding <i>Caryedon</i> spp. at NAP. | MB T203-b. |
| Seeds not specifically listed | External feeders | MB T203-a-1. |
| Seeds with infested pulp | Internal feeders | MB T203-a-2. |
| | Fruit flies and other pulp infesting insects | T203-n: Place seed in wire basket. Immerse in 118-125 °F water for 25 minutes. Remove pulp from seed under running tap water. |

(2) Noxious weed seeds (devitalization treatment).

| Weed seeds | Treatment schedule |
|---|-----------------------------|
| <i>Asphodelus fistulosus</i> , <i>Digitaria</i> spp., <i>Oryza</i> spp., <i>Paspalum scrobiculatum</i> , <i>Prosopis</i> spp., <i>Solanum viarum</i> , <i>Striga</i> spp., <i>Urochloa panicoides</i> . | DH T412-a. |
| <i>Cuscuta</i> spp. | DH T412-b-1 or VH T412-b-2. |

(r) *Ships, containers, and surrounding area.* The treatment schedules for which administration instructions are not provided are in § 305.6 for methyl bromide (MB) fumigation.

| Product | Pest | Treatment schedule |
|--|--|--|
| Asphalt surfaces and asphalt-base painted surfaces. | <i>Trogoderma granarium</i> | T402-b-3-2: Prepare 3 percent spray by adding 1 pound of 25 percent malathion wettable powder to each gallon of water. Spray at 2 gal/1000 ft ² or to the point of runoff. |
| Piers and barges | <i>Globodera rostochiensis</i> | T406-c, steam cleaning: Steam at high pressure until all soil is removed. Treated surfaces must be thoroughly wet and heated. |
| Metal and wood surfaces such as decks, bulkheads, piers, and other areas not subject to fumigations. | <i>Trogoderma granarium</i> | T402-b-3-1: Prepare 3 percent spray by mixing ½ pint emulsifiable concentrate (57 percent premium grade malathion) per gallon of water. Spray at 2 gal/1000 ft ² or to the point of runoff. |
| Ship holds and any nonplant cargo material within holds. | Quarantine significant snails of the family Achatinidae, including the following genera: <i>Achatina</i> , <i>Archachatina</i> , <i>Lignus</i> , <i>Limicolaria</i> . | MB T402-a-1. |
| Ship holds and any nonplant cargo material within holds. | Quarantine significant snails of the family Hygromiidae, including the following genera: <i>Canidula</i> , <i>Cernuella</i> , <i>Cochlicella</i> , <i>Helicella</i> , <i>Helicopsis</i> , <i>Monacha</i> , <i>Platynotra</i> , <i>Pseudotrichia</i> , <i>Trochoidea</i> , <i>Xerolenta</i> , <i>Xeropicta</i> , <i>Xerosecta</i> , <i>Xerotricha</i> . | MB T402-a-2. |
| Ship holds and any nonplant cargo material within holds. | Quarantine significant snails of the families Helicidae and Succineidae, including the following genera: <i>Caracolla</i> , <i>Cepaea</i> , <i>Cryptomphalus</i> , <i>Helix</i> , <i>Malonyx</i> , <i>Otala</i> , <i>Succinea</i> , <i>Theba</i> . | MB T402-a-3. |
| Ship holds and storerooms with loosely packed material. | <i>Trogoderma granarium</i> | MB T402-b-1. |
| Ship holds and storerooms with tightly packed material. | <i>Trogoderma granarium</i> | MB T402-b-2. |

(s) *Skins (goatskins, lambskins, and sheepskins).* The treatment schedules for which administration instructions are not provided are in § 305.6 for methyl bromide (MB) fumigation.

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| Pest | Treatment schedule |
|-----------------------------------|--|
| <i>Trogoderma granarium</i> | MB T416-a-1 or MB T416-a-2 or MB T416-a-3. |

(t) *Soil*. The treatment schedules for which numbers are specified and administration instructions are not provided are in § 305.6 for methyl bromide (MB) fumigation, § 305.23 for steam sterilization (SS), and § 305.25 for dry heat (DH).

| Product | Pest | Treatment |
|--|---|---|
| Herbarium specimens of mosses and liverworts in soil and originating in golden nematode free countries. | Precautionary | MB T408-e-1. |
| Herbarium specimens of mosses and liverworts in soil and originating in golden nematode free countries. | <i>Globodera rostochiensis</i> | MB T408-e-2. |
| Soil | Potato cyst nematode | MB T502-3. |
| Soil | Various pests and pathogens found in soil (including <i>Striga</i>). Various pests and pathogens found in soil. | DH T408-a. SS T408-b. |
| Soil (friable and moist, but not wet and not more than 12 inches in depth). | <i>Globodera rostochiensis</i> | MB T408-c-2. |
| Soil | Insects | T408-d-1: Screening through 16 mesh screens will remove most larvae and pupae, except smaller types; or T408-d-2: Freezing—0 °F for 5 days. MB T408-c-1. |
| Soil (friable and moist, but not wet and not more than 12 inches in depth) in containers with dimensions that do not exceed 24 inches. | <i>Globodera rostochiensis</i> | T408-b-1 (steam cleaning): Steam at high pressure until all soil is removed. Treated surfaces must be thoroughly wet and heated. |
| Soil on equipment | Various pests and pathogens found in soil. | T408-f, steam cleaning: Steam at high pressure until all soil is removed. Treated surfaces must be thoroughly wet and heated. |
| Soil contaminated equipment (pre-cautionary treatment). | Soil fungi, nematodes, and certain soil insects. | T408-g-1 or MB T408-g-2. |
| Soil contaminated non-food or non-feed commodities (soil must be friable and or moist, but not wet, and must not exceed 12 inches in dimension). | <i>Striga</i> | |

(u) *Sugarcane*.

| Product | Pest | Treatment schedule |
|---|--|--|
| <i>Saccharum</i> (seed pieces) | <i>Xanthomonas albilineans</i> and X. | T514-1: Presoak in water at room temperature for 24 hours. Then immerse in water at 122 °F for 3 hours. T514-2: Immerse in 0.525 percent sodium hypochlorite solution for 30 minutes followed by at least 8 hours air drying before packaging (Dilute 1 part Clorox or similar solution containing 5.25 percent sodium hypochlorite; if using ultra strength chlorine bleach, use only ¾ as much bleach). |
| <i>Saccharum</i> (true seed fuzz) | | T514-3: Dry heat treatment for 2 hours at 158 °F. |
| <i>Saccharum</i> (bagasse) | | T515-1: Introduce live steam into 25" vacuum until pressure reaches 15 to 20 pounds. Hold until center of bale is 220-230 °F and maintain for 30 minutes. |
| Sugarcane (baled) | Various sugarcane-related diseases | T515-2-1: Introduce steam into 25" vacuum (or if with initial vacuum, "bleed" air until steam vapor fills chamber). |
| Sugarcane (loose) | | |

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| Product | Pest | Treatment schedule |
|---------|------|--|
| | | T515-2-3: Dry heat at 212 °F for 1 hour. T515-2-4: Remove the pulp in water at 190–205 °F, followed by drying at 212 °F for 1 hour. T515-2-5: Flash heated to 1,000 °F (Arnold dryer). |

(v) *Wood articles including containers, oak logs and lumber, Christmas trees.* The treatment schedules for which administration instructions are not provided

are in § 305.6 for methyl bromide (MB) fumigation, § 305.8 for sulfuryl fluoride (SF), and § 305.28 for kiln sterilization (KS).

| Material | Pest | Treatment schedule |
|--|--|--|
| Cut conifer Christmas trees | <i>Lymantria dispar</i> egg masses | MB T313-a. |
| Cut pine Christmas trees and pine logs .. | <i>Tomicus piniperda</i> | MB T313-b. SF T404-c-2. |
| Wood surfaces (can be combined with other surfaces such as metal or concrete). Wood surfaces (can be combined with other surfaces such as metal or concrete). | Borers (wood wasps, cerambycids, and <i>Dinoderus</i>). Oak logs | T404-b-5-1: (1) The spray must be applied by or under the supervision of pest control operators or other trained personnel responsible for insect control programs; (2) prepare the spray by thoroughly mixing 79 ml (2½ fluid ounces) of Dursban 4E with water for a total of 1 gallon of mixture (equivalent to 2.1 gallons in 100 gallons of water); and (3) apply as a 1 percent chlorpyrifos spray with suitable hand- or power-operated ground spray equipment to the point of runoff. MB T312-a. MB T312-b. MB T404-b-1-1 or MB T404-b-1-2 or SF T404-b-2 or KS T404-b-4. MB T404-a. MB T404-c-1-1 or MB T404-c-1-2. MB T404-d. |
| Oak lumber | Oak wilt disease | |
| Wood products including containers | Borers (wood wasps, cerambycids, and <i>Dinoderus</i>). <i>Globodera rostochiensis</i> | |
| | Termites | |
| | Borers and <i>Trogoderma granarium</i> | |

[70 FR 33269, June 7, 2005, as amended at 70 FR 36332, June 23, 2005; 70 FR 72886, Dec. 8, 2005; 71 FR 4459, Jan. 27, 2006; 71 FR 25494, May 1, 2006; 71 FR 55089, Sept. 21, 2006]

§ 305.3–305.4 [Reserved]**Subpart—Chemical Treatments****§ 305.5 Treatment requirements.**

(a) *Certified facility.* The fumigation treatment facility must be certified by APHIS. Facilities are required to be inspected and recertified annually, or as often as APHIS directs, depending upon treatments performed, commodities handled, and operations conducted at the facility. In order to be certified, a fumigation facility must:

(1) Be capable of administering the required dosage range for the required

duration and at the appropriate temperature.

(2) Be adequate to contain the fumigant and be constructed from material that is not reactive to the fumigant.

(3) For vacuum fumigation facilities, be constructed to withstand required negative pressure.

(b) *Monitoring.* Treatment must be monitored by an official authorized by APHIS to ensure proper administration of the treatment, including that the correct amount of gas reaches the target organism and that an adequate number and placement of blowers, fans, sampling tubes, or monitoring lines are used in the treatment enclosure. An official authorized by APHIS approves, adjusts, or rejects the treatment.

(c) *Treatment procedures.* (1) To kill the pest, all chemical applications must be administered in accordance